

El-Fiky's

MINI ATLAS OF
ANATOMY
PART III

UPPER LIMB

DR. MOHAMED EL-FIKY
Professor of Anatomy & Embryology
Faculty of Medicine Menoufia University
EGYPT

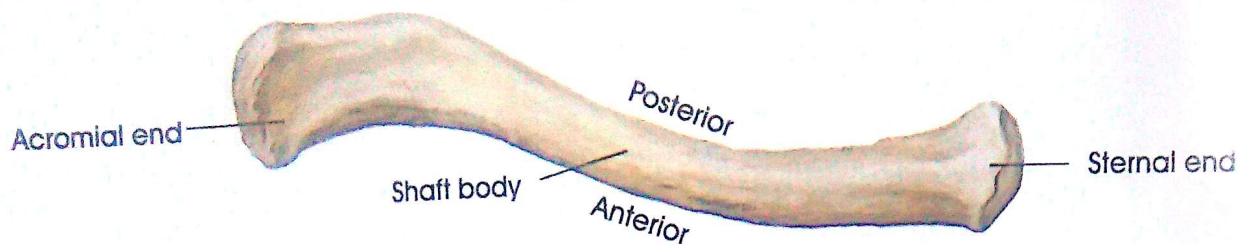


VISIT...

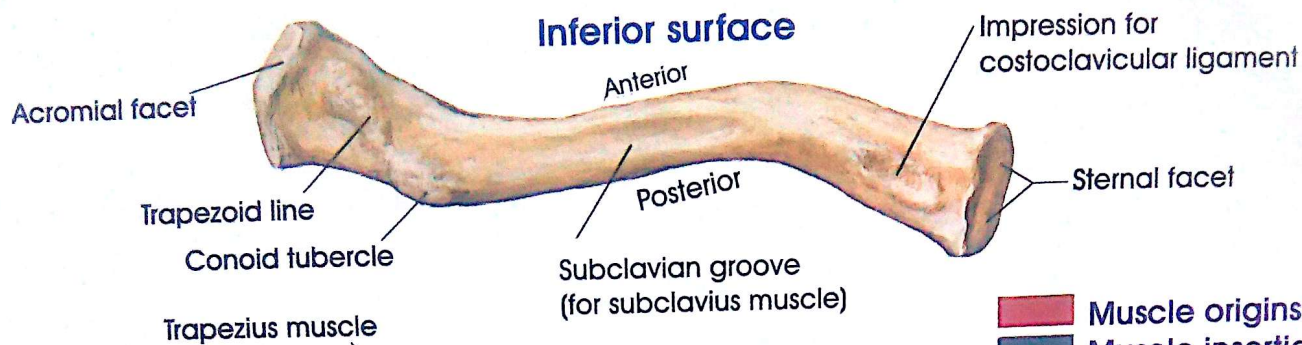
LANZAROTE
Caliente.COM

Right clavicle

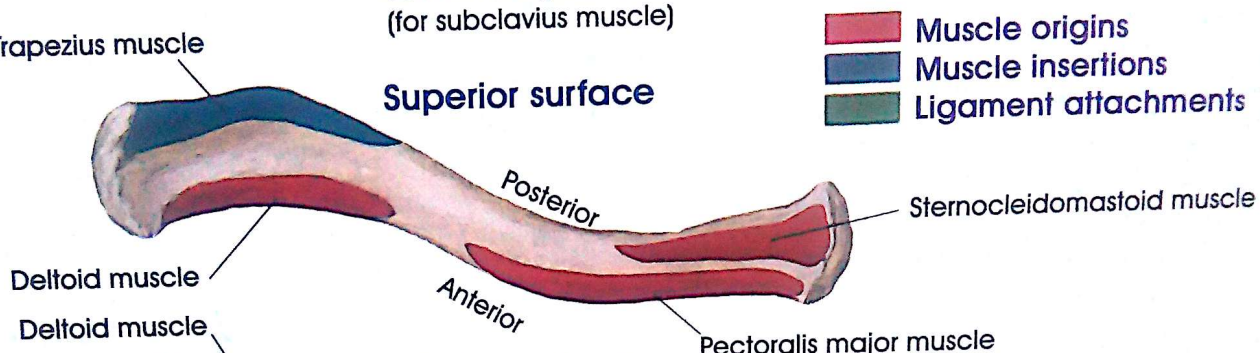
Superior surface



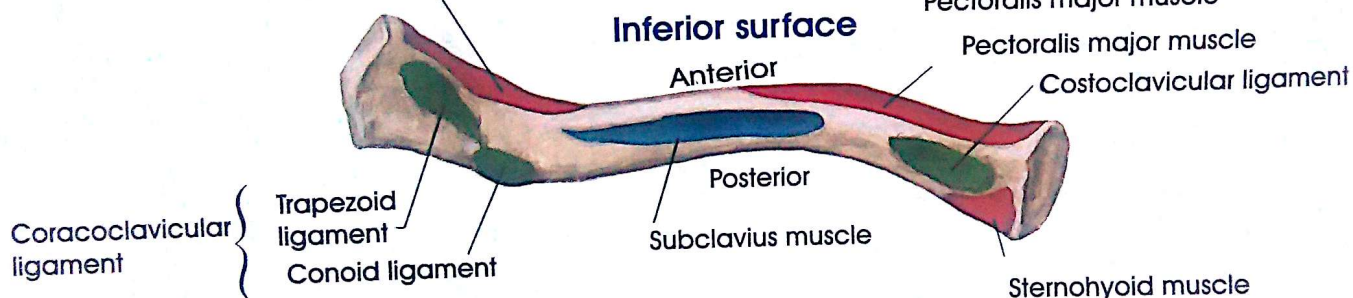
Inferior surface



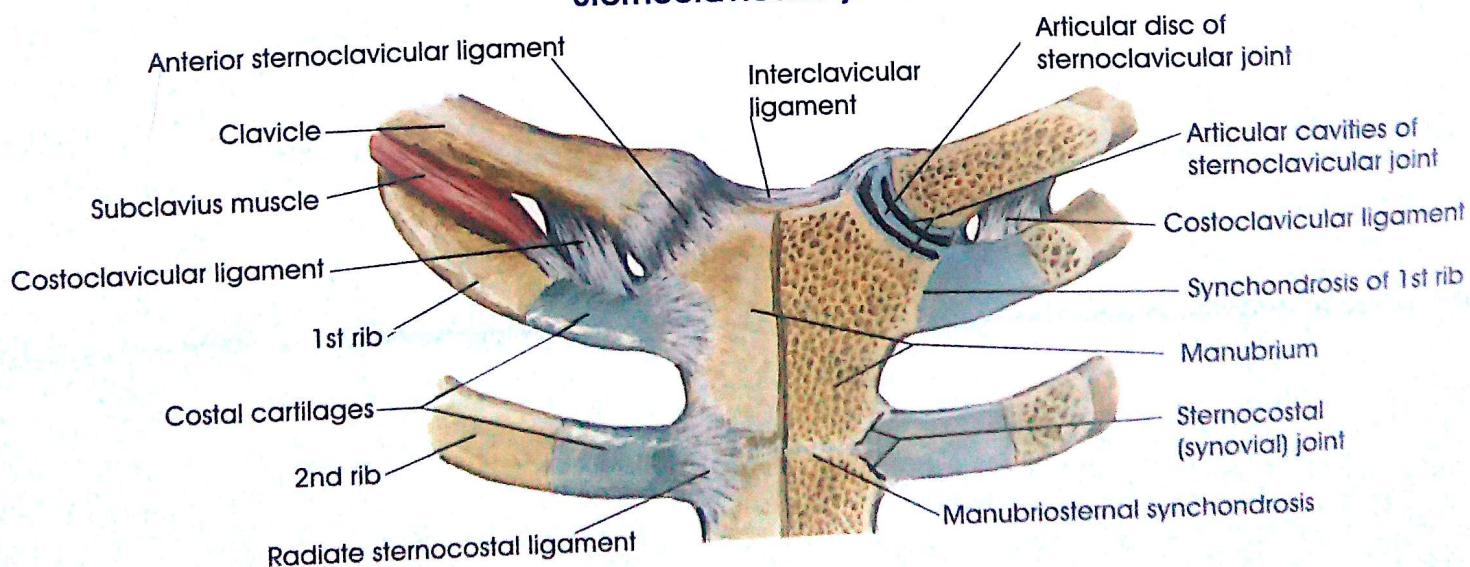
Superior surface



Inferior surface

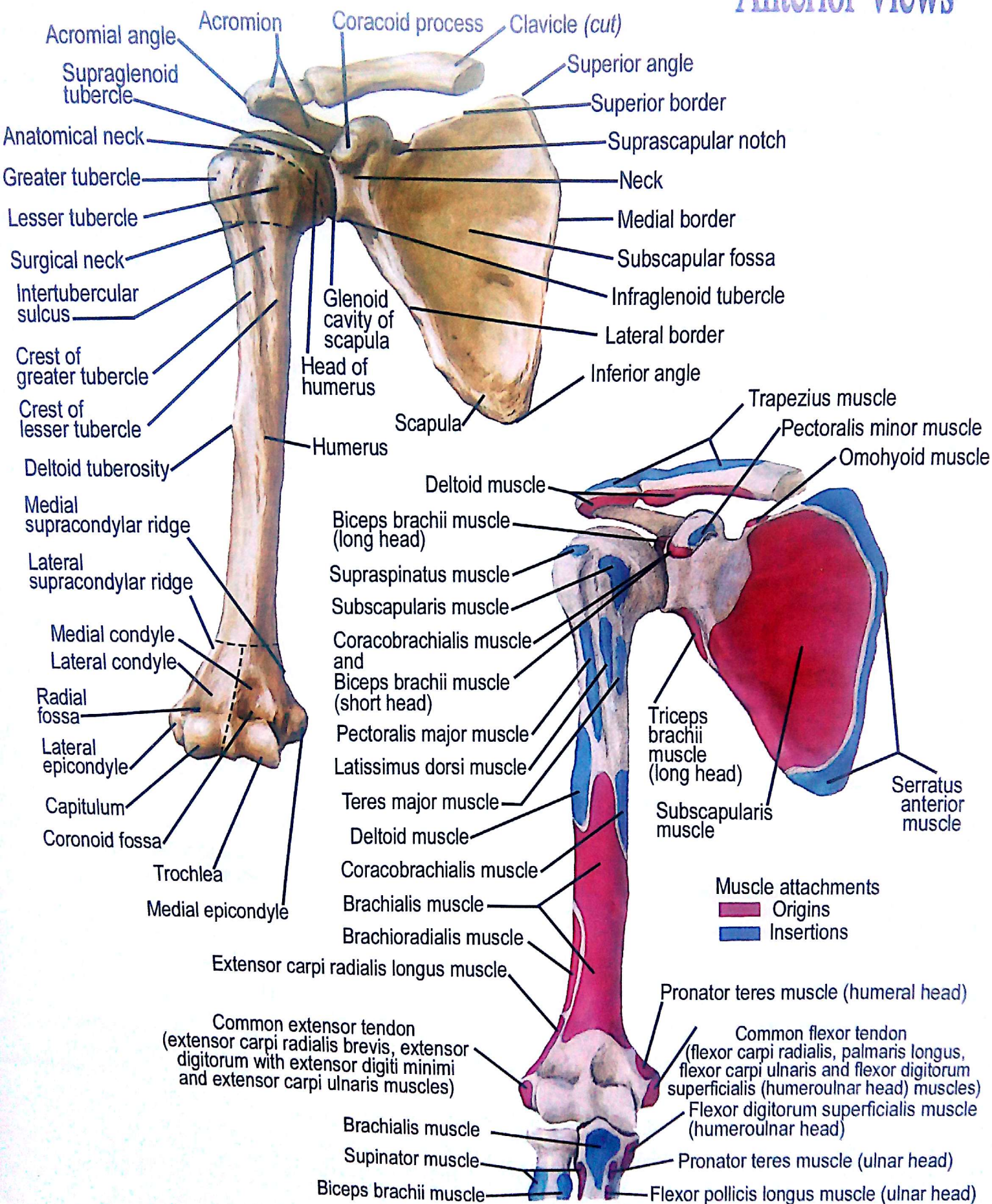


Sternoclavicular joint



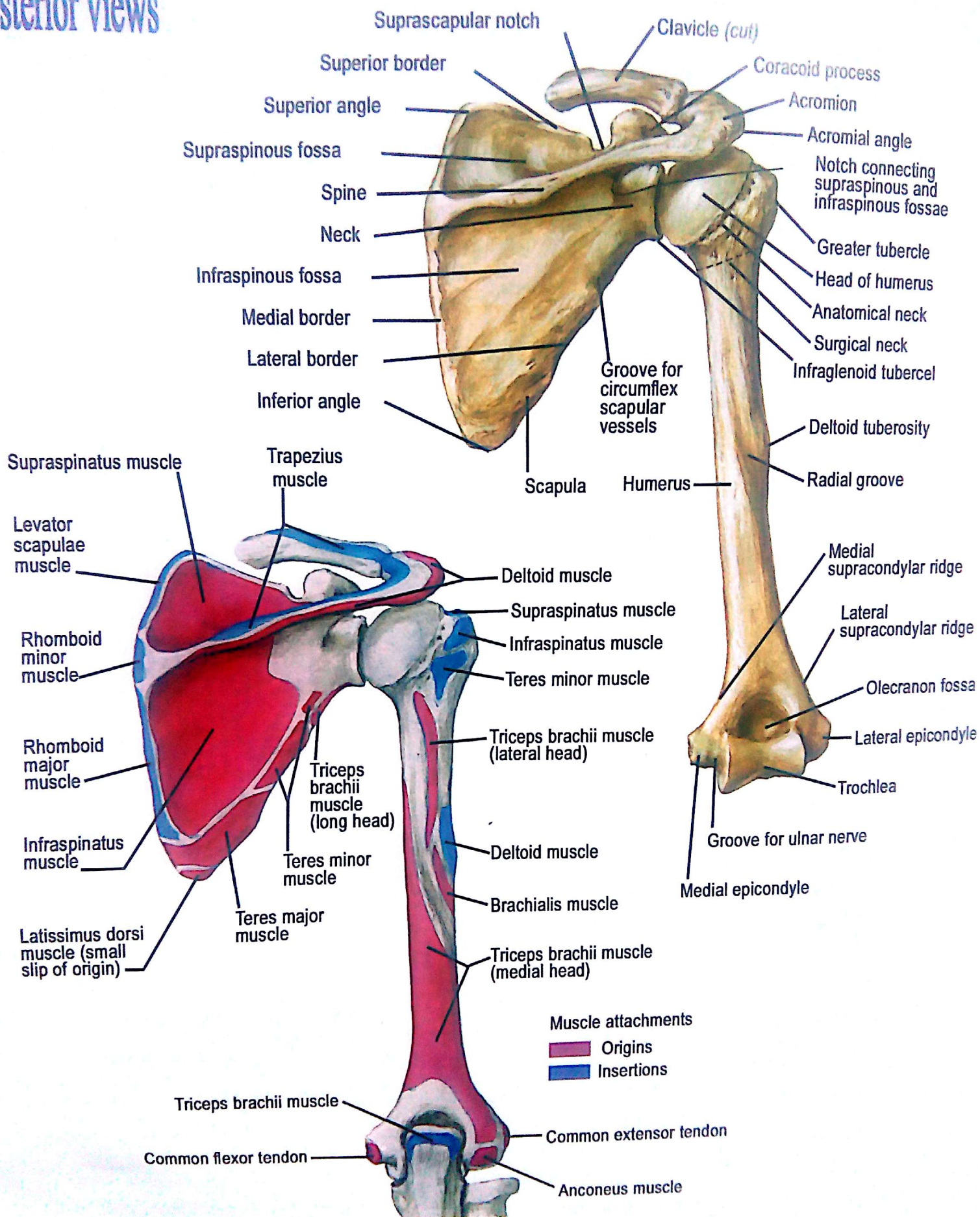
Clavicle and Sternoclavicular Joint

Anterior Views



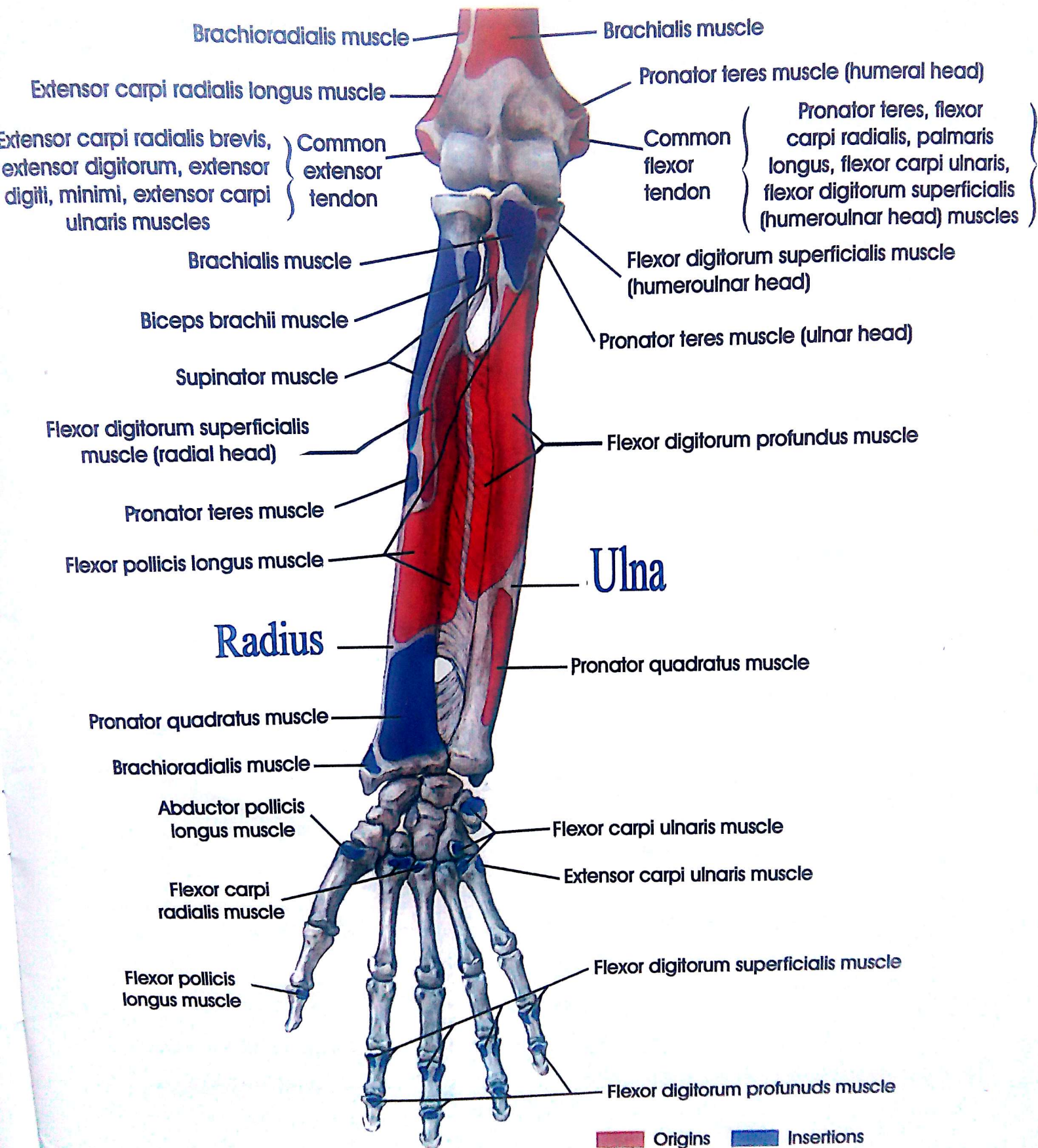
Humerus and Scapula

Posterior views



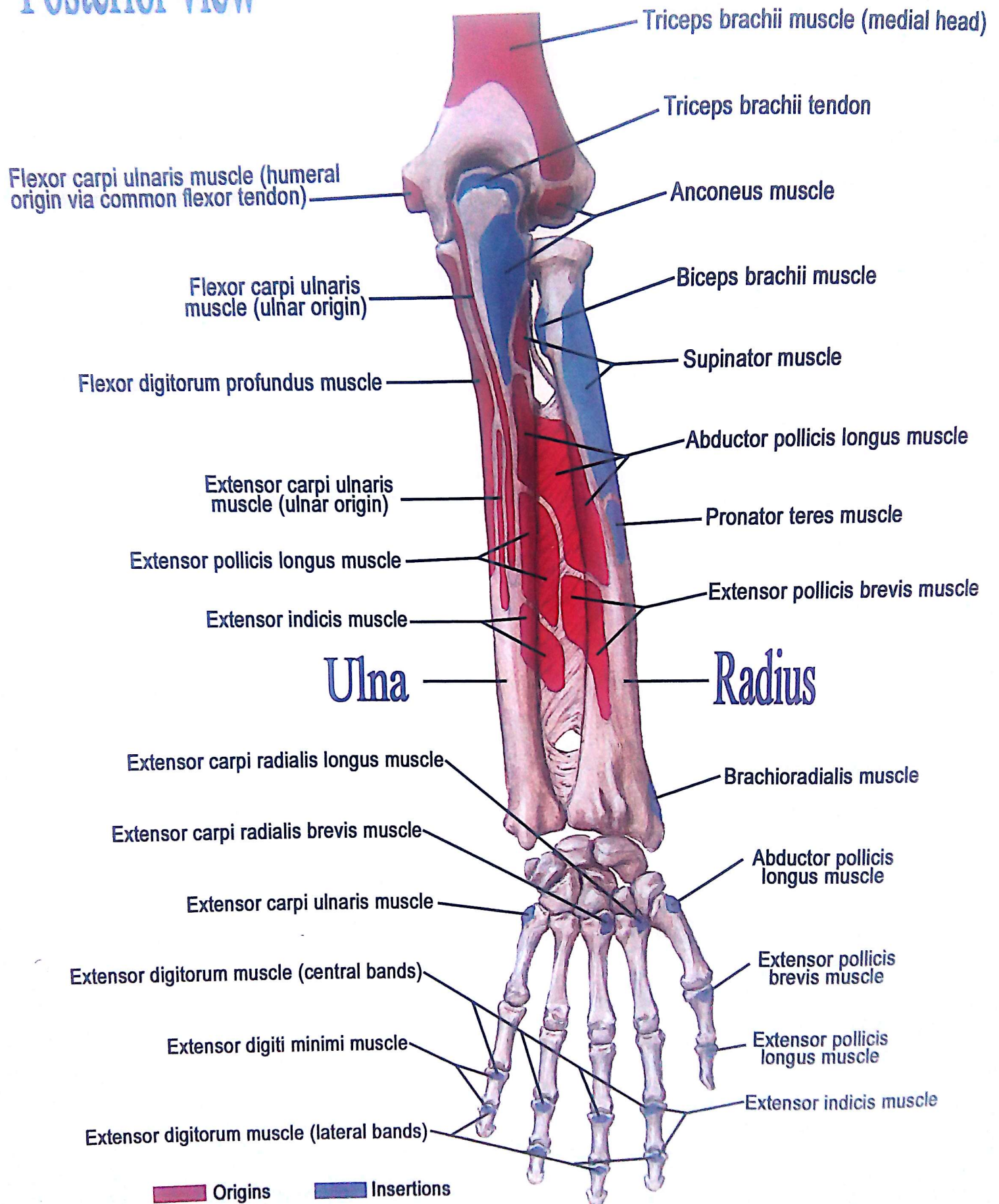
Humerus and Scapula

Anterior View

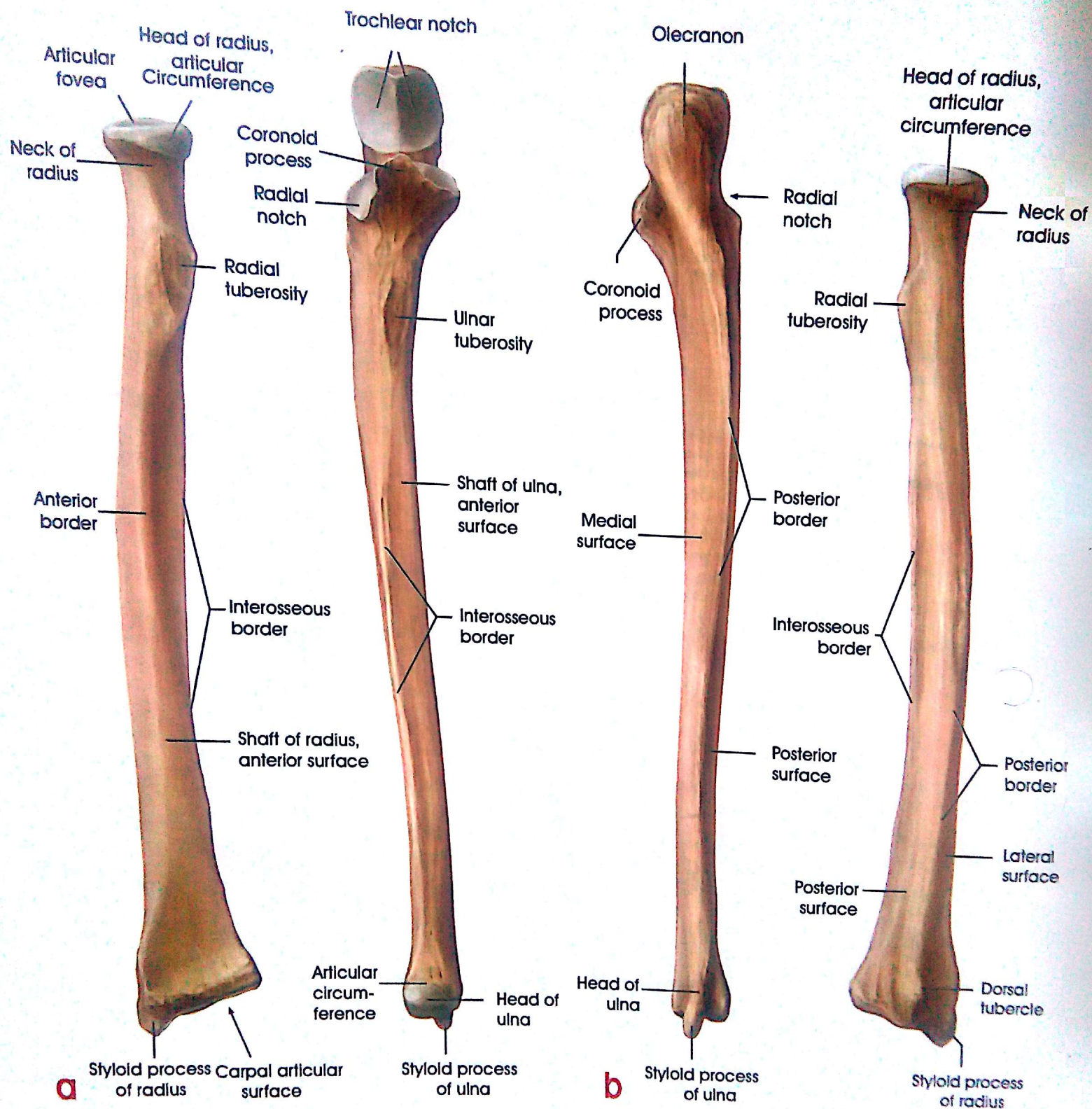


Attachments of Muscles of Forearm

Posterior view



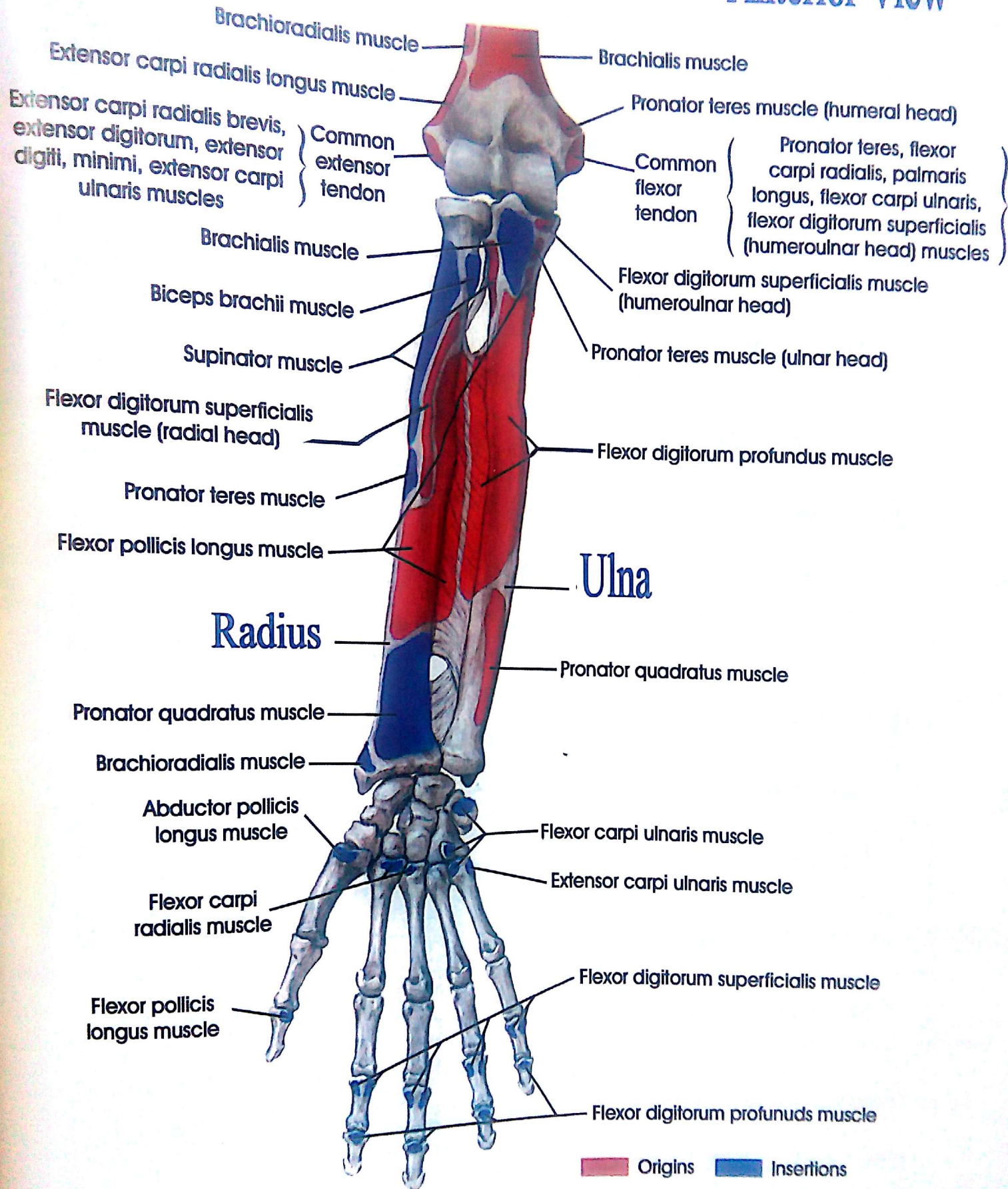
Attachments of Muscles of Forearm



a Anterior View, b Posterior View.

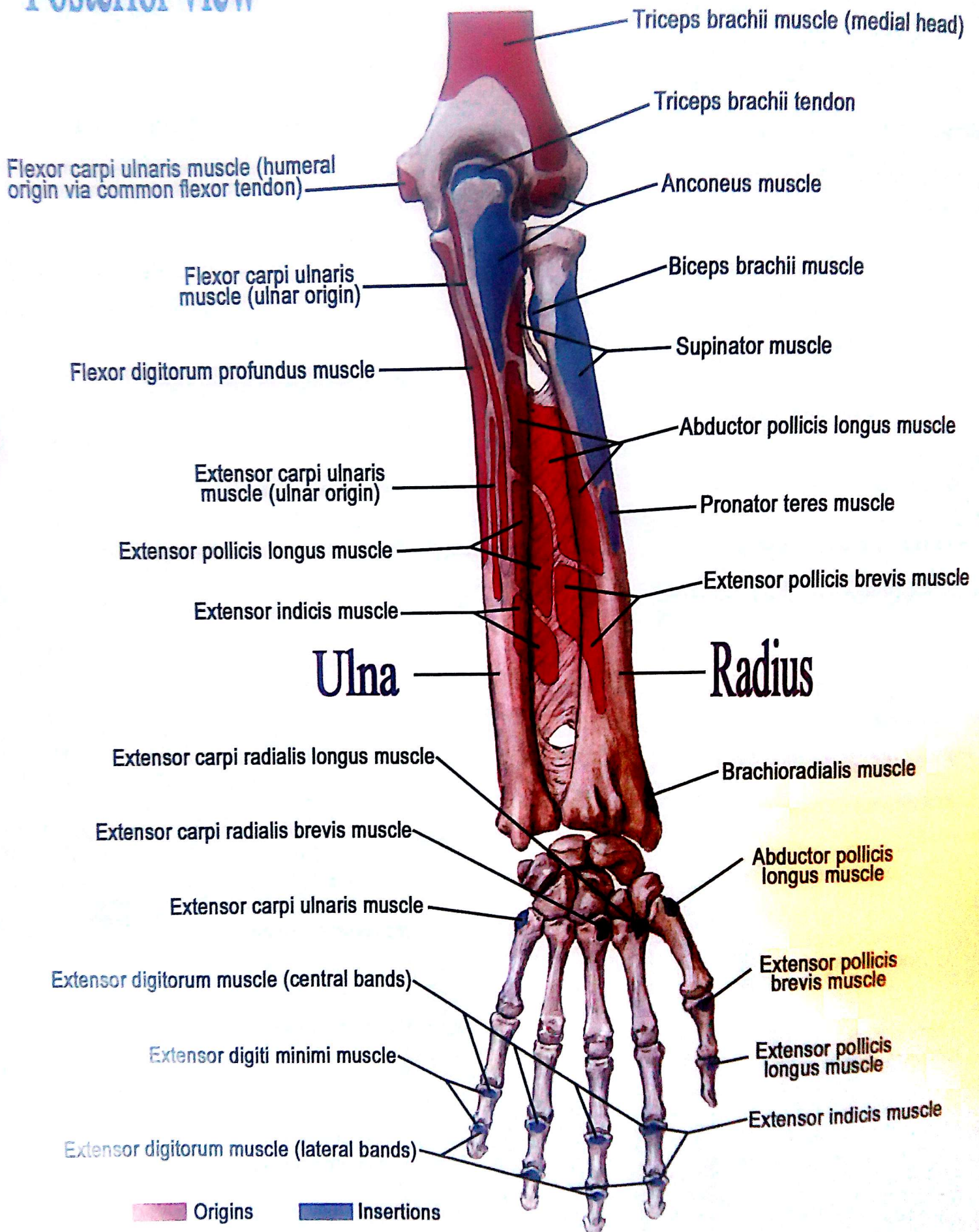
The Radius and Ulna

Anterior View

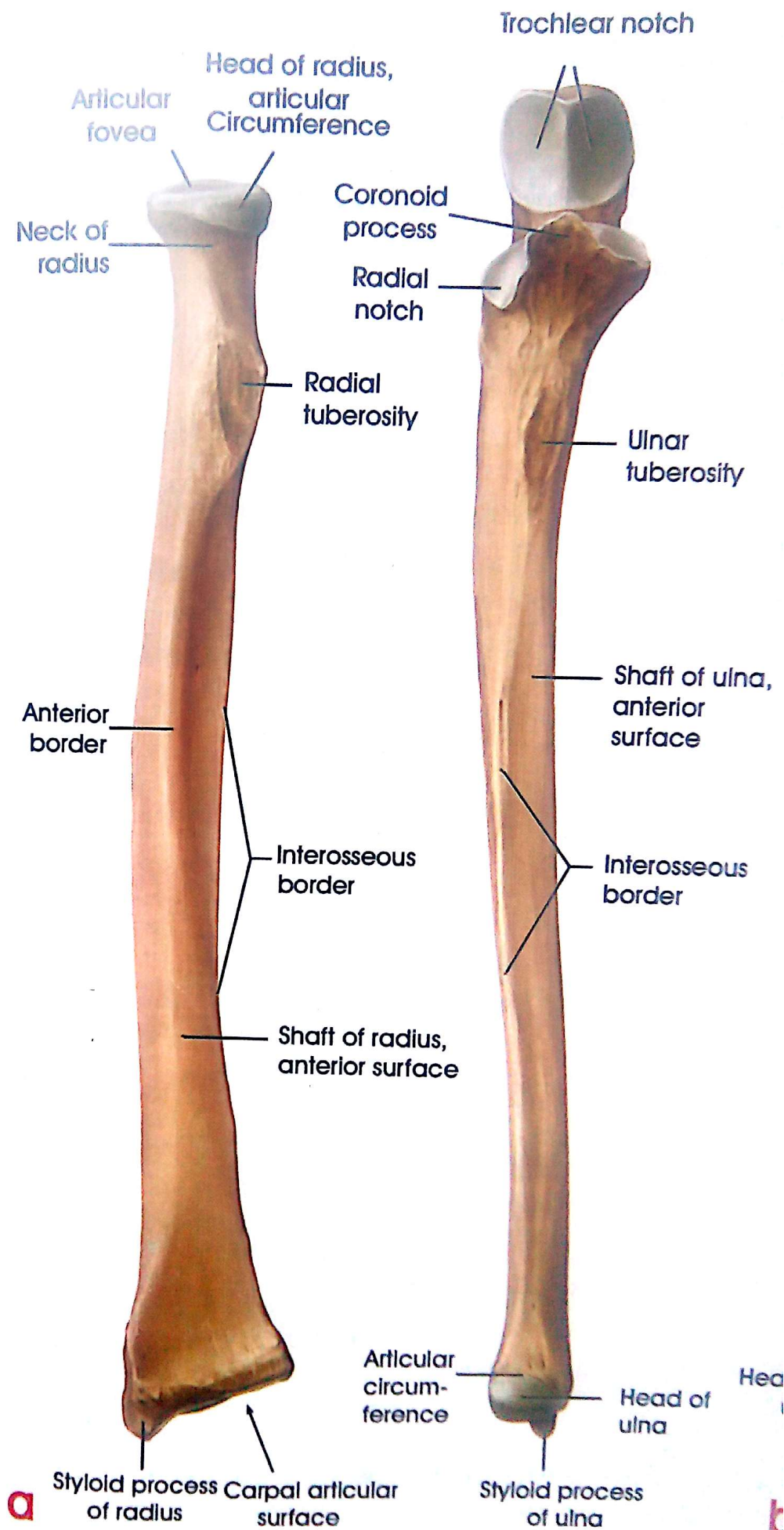


Attachments of Muscles of Forearm

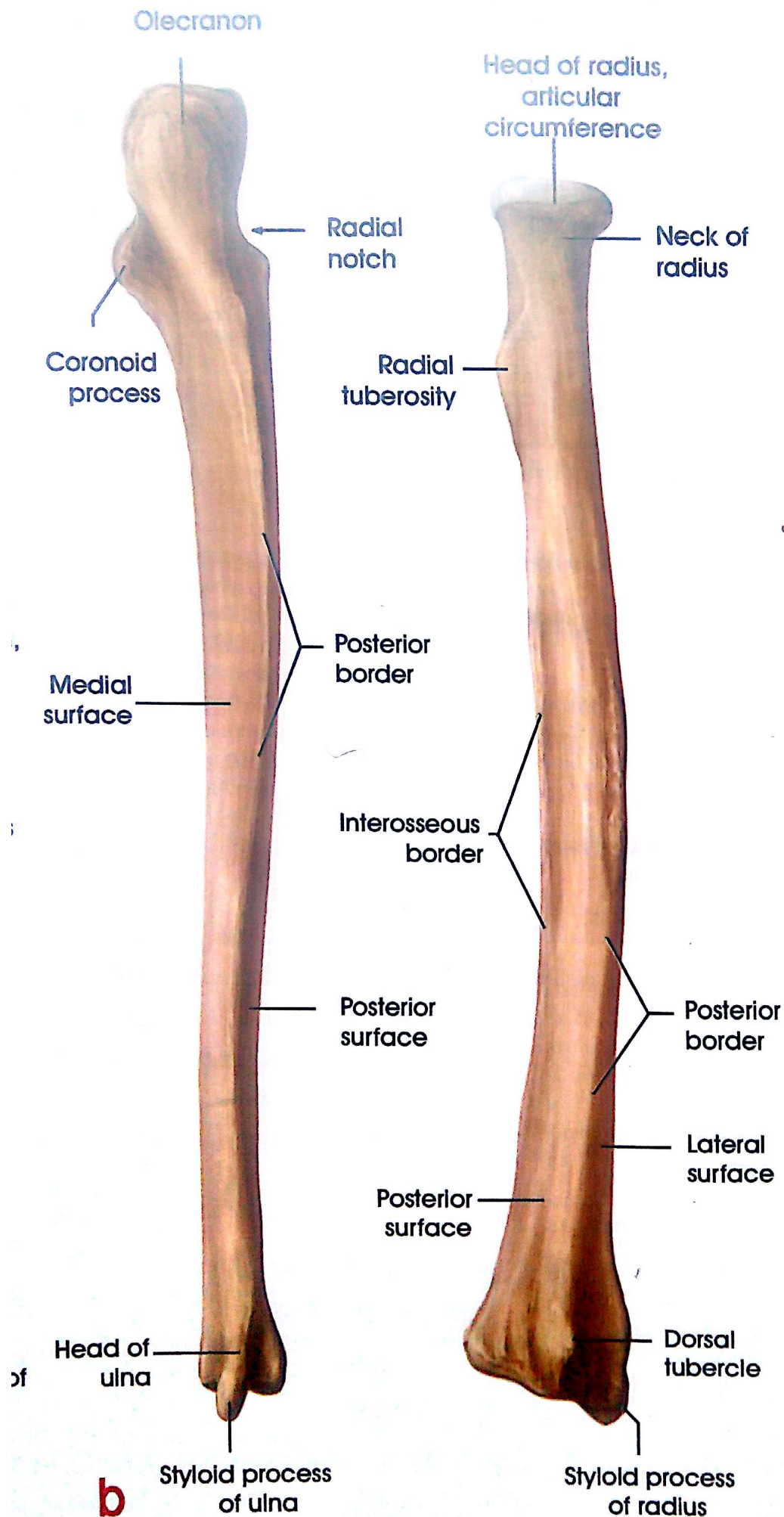
Posterior view

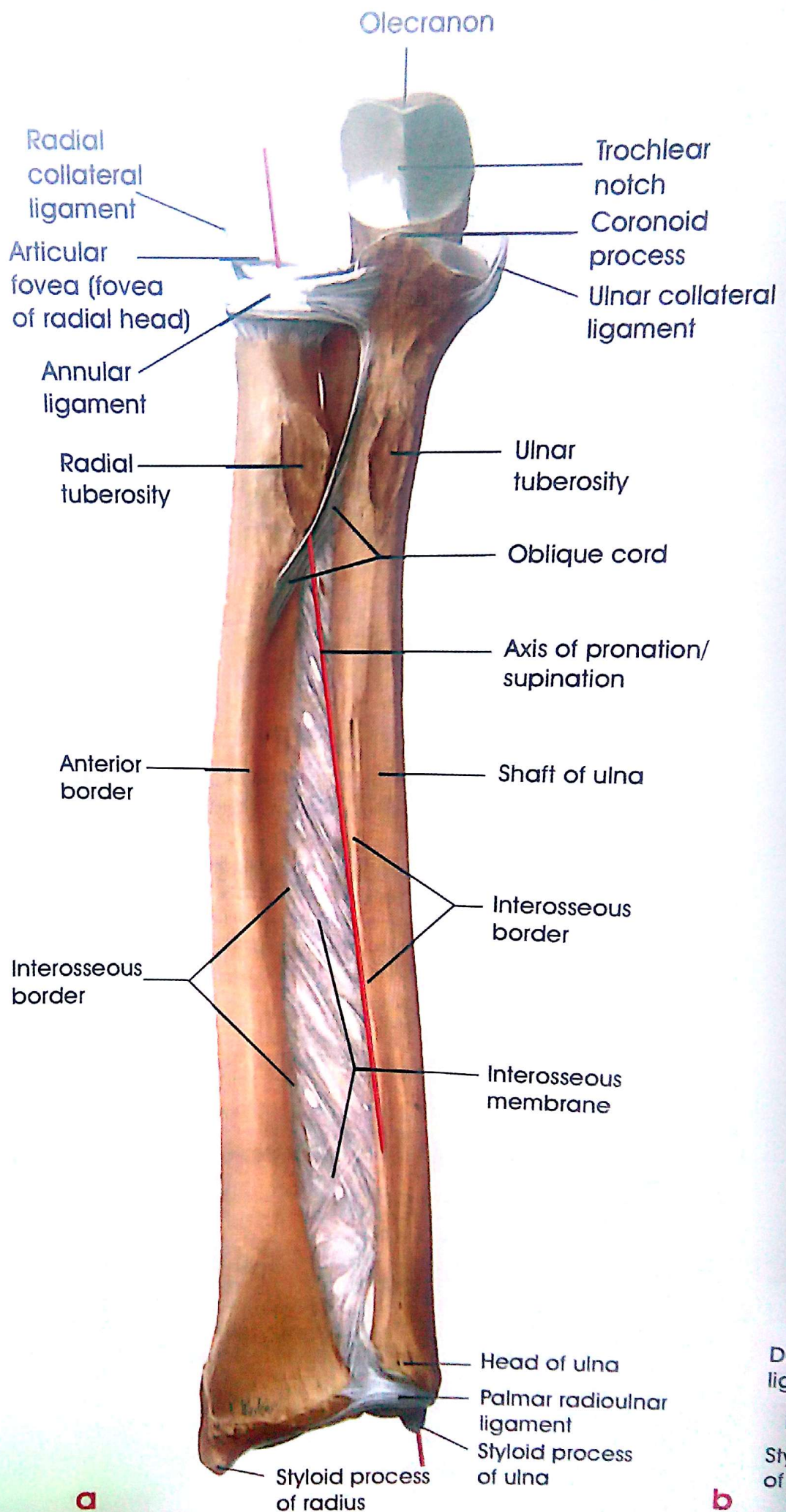


Attachments of Muscles of Forearm

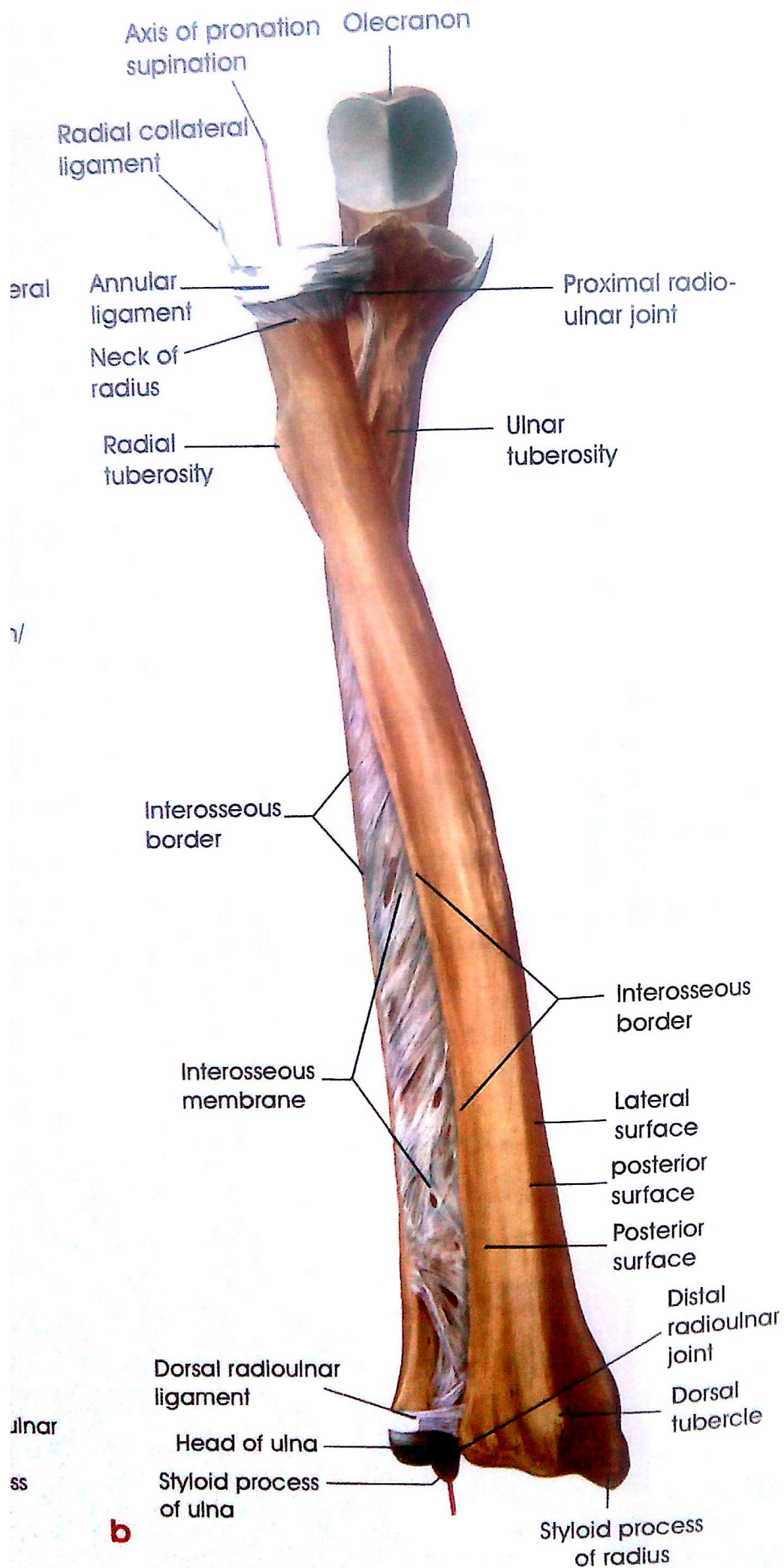


a Anterior View, b Posterior View.

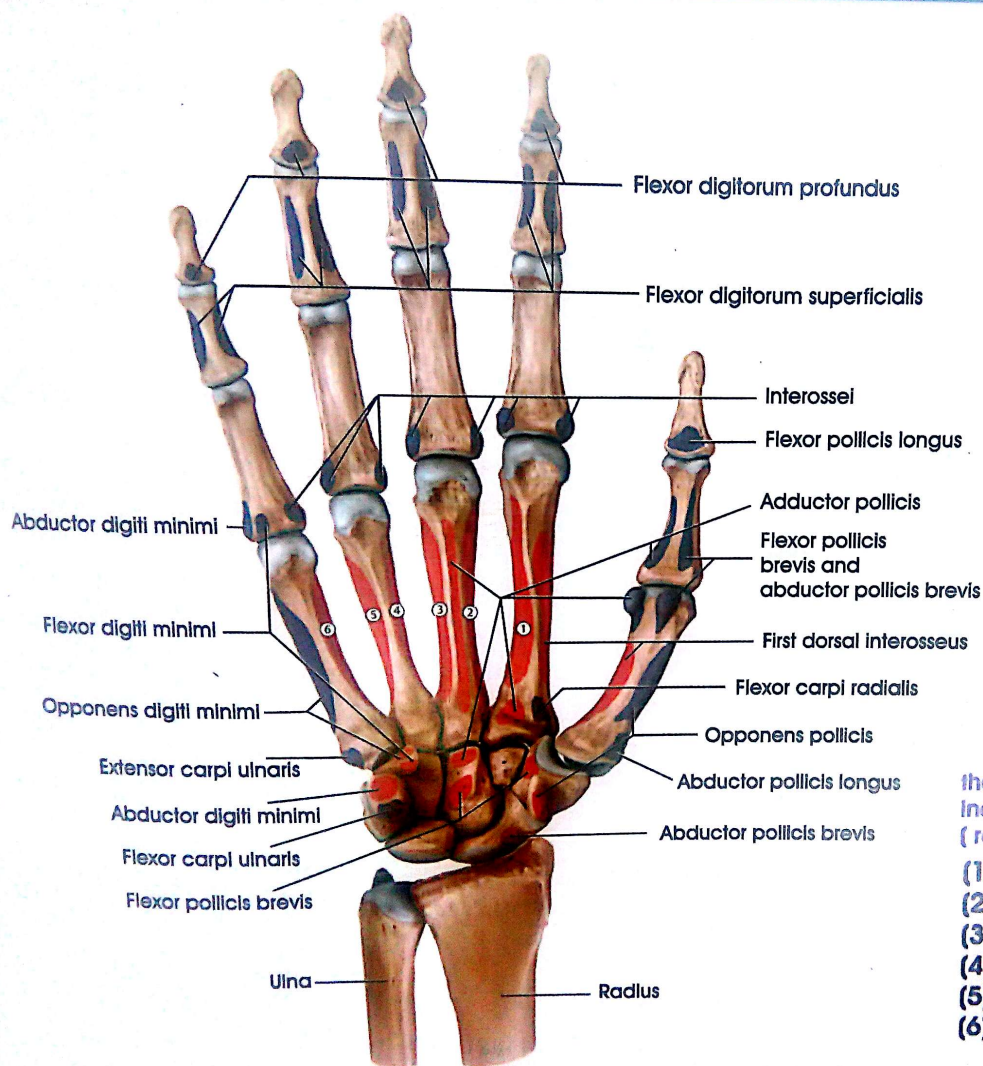




Ligaments and axis for pronation and supination



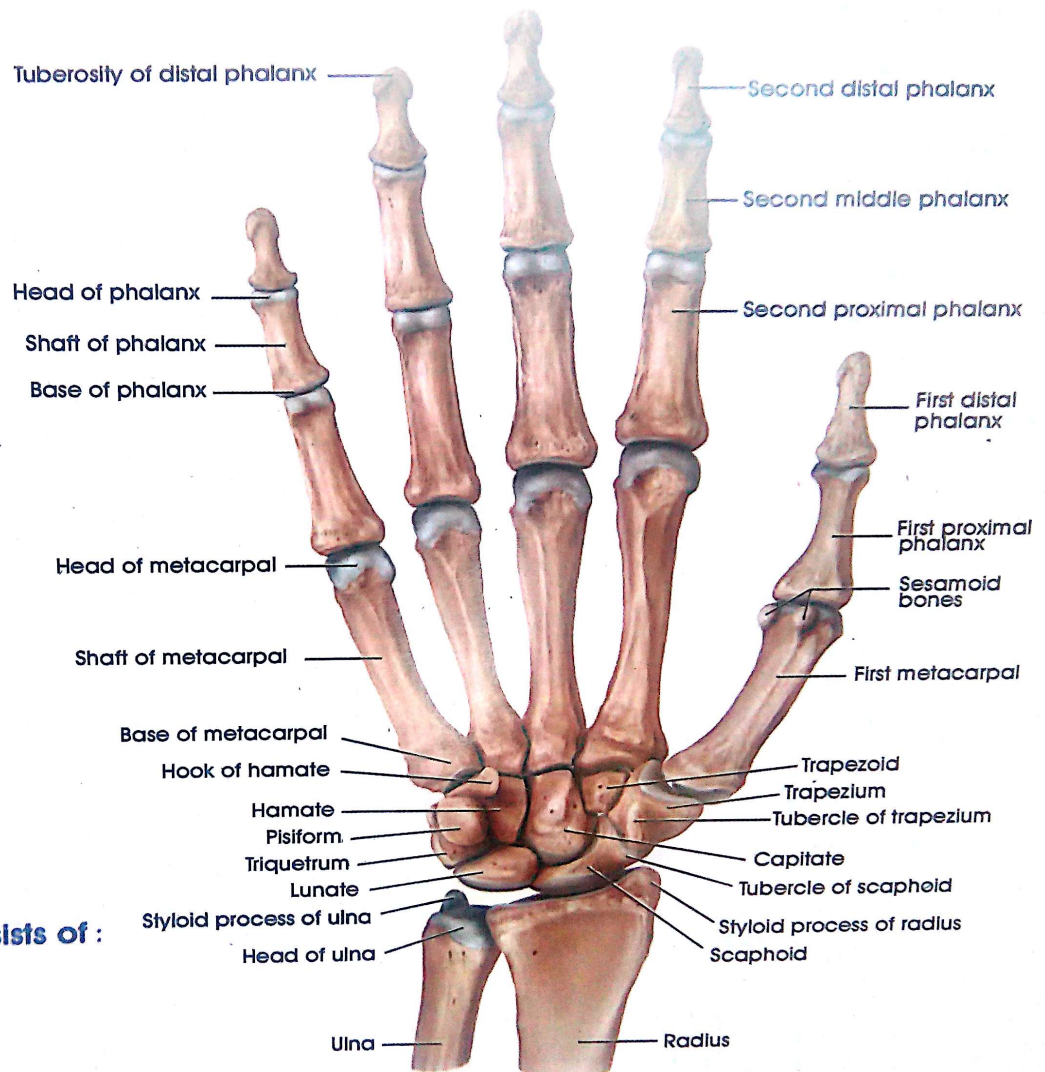
b



the origins and insertions of the muscles are indicated by color shading (red origin, blue = insertion).

- (1) First palmar interosseus
- (2) Second dorsal interosseus
- (3) Third dorsal interosseus
- (4) Second palmar interosseus
- (5) Fourth dorsal interosseus
- (6) Third palmar interosseus

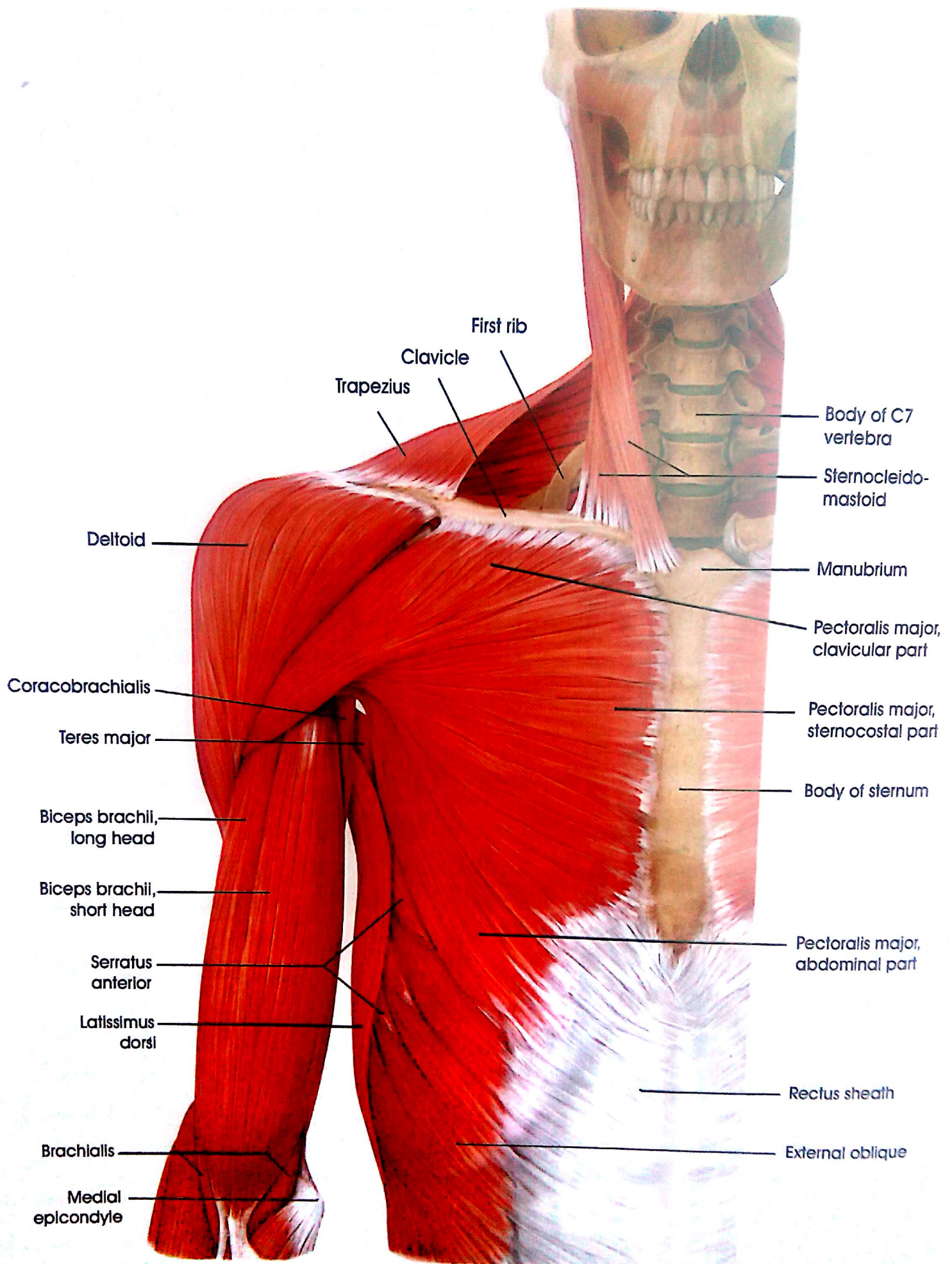
Origins and Insertions of the Palmar Muscles of the Right Hand



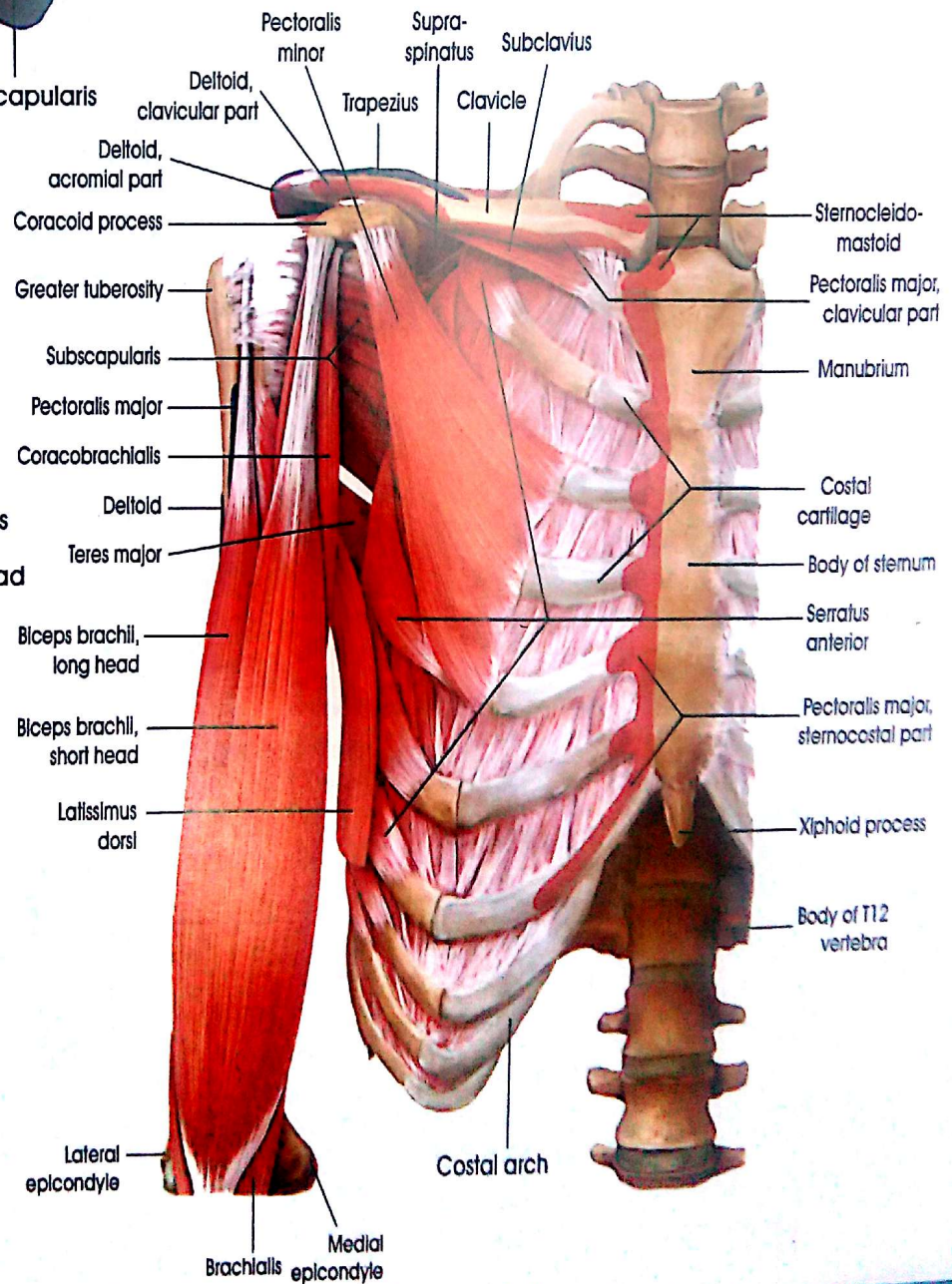
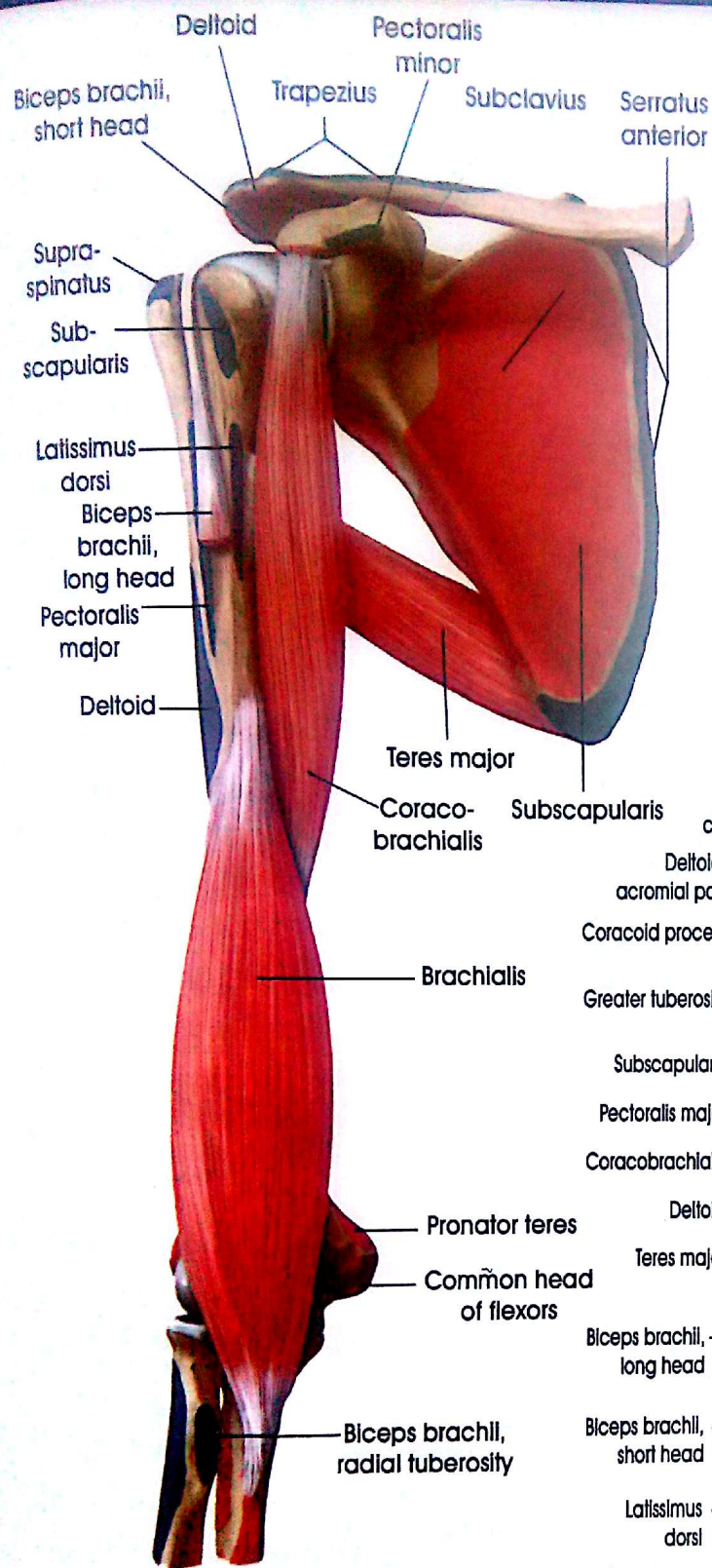
the skeleton of the hand consists of :

- * the carpal bones
- * the metacarpal bones
- * the phalanges

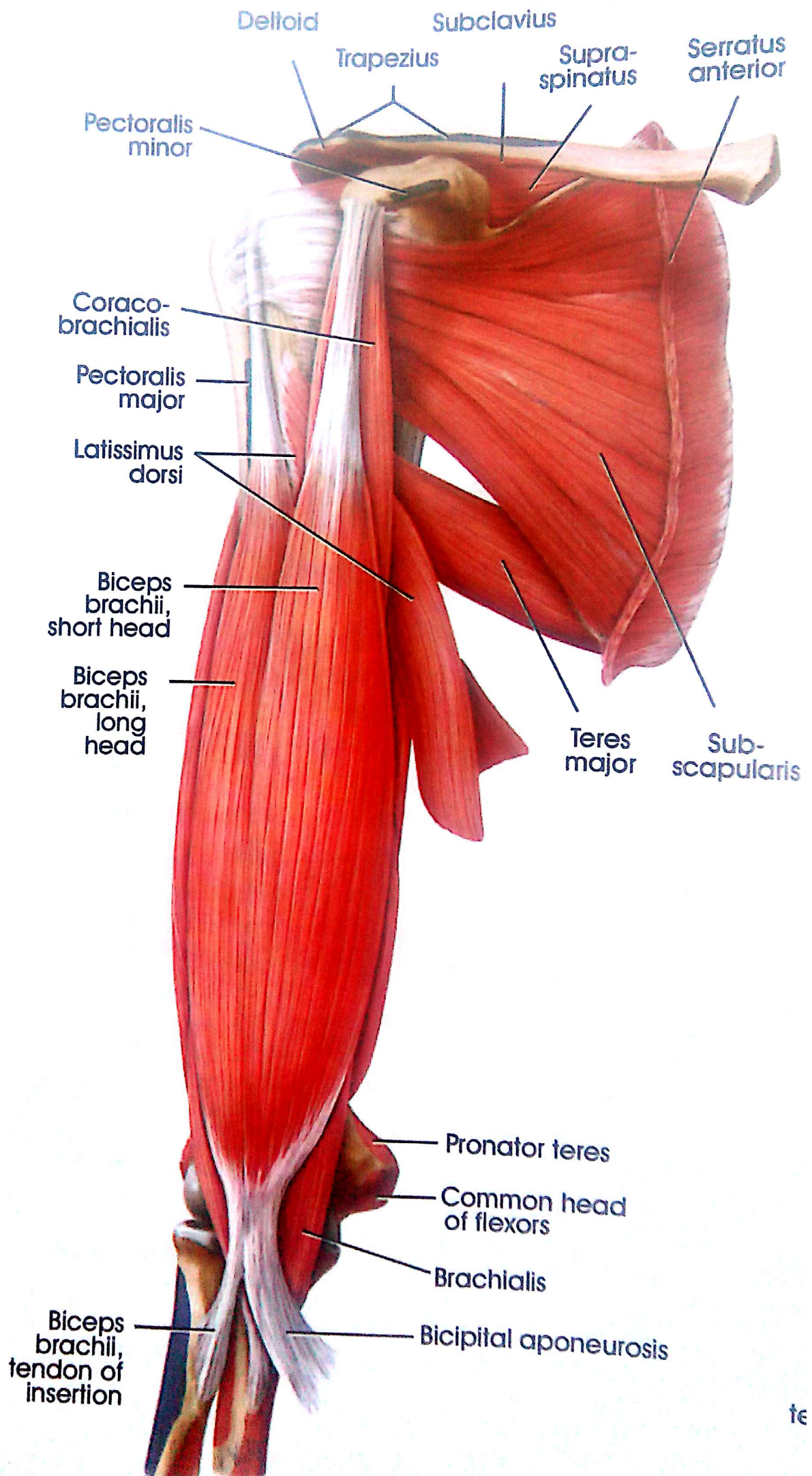
The Bones of the Right Hand. Palmar View

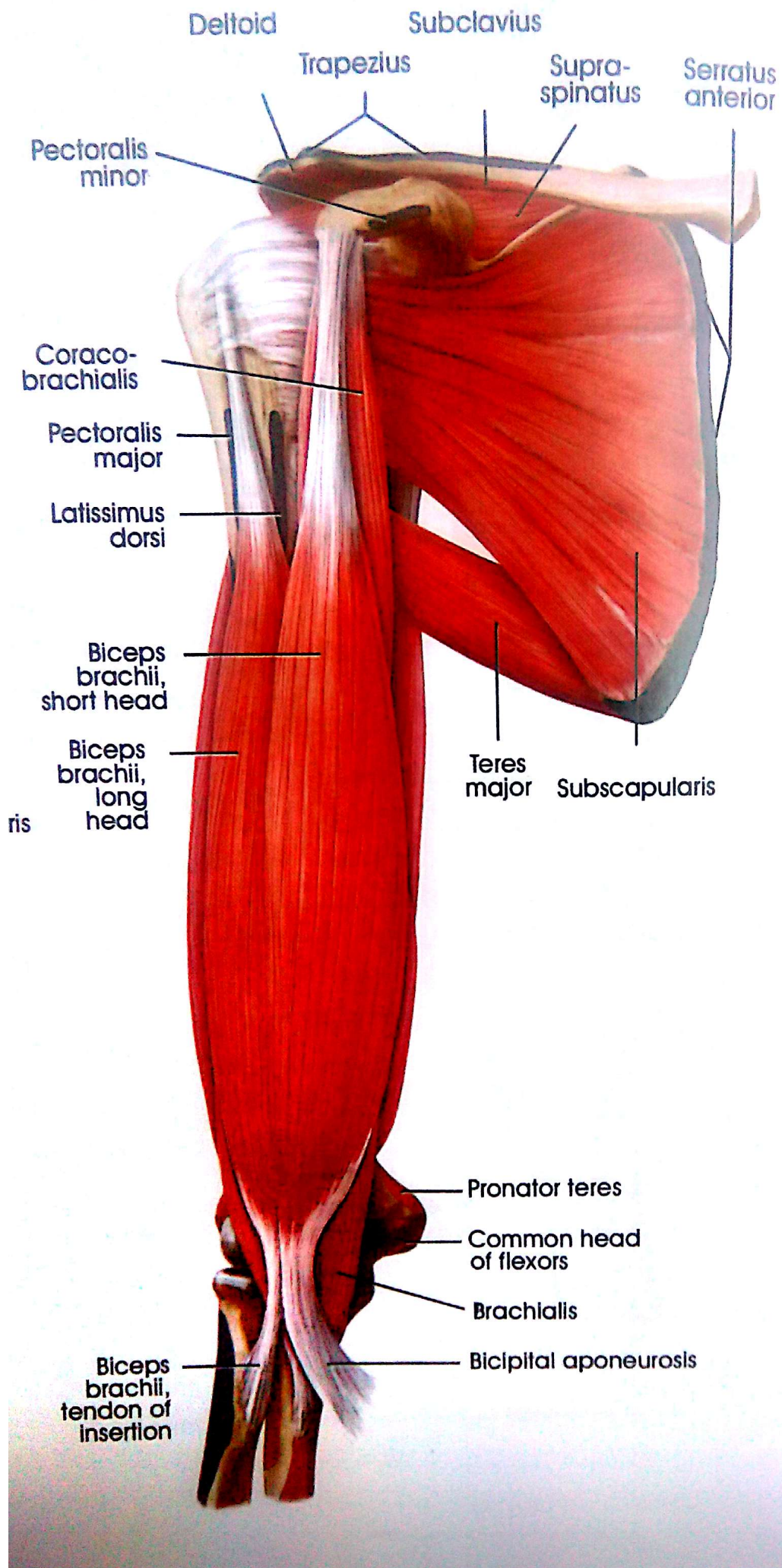


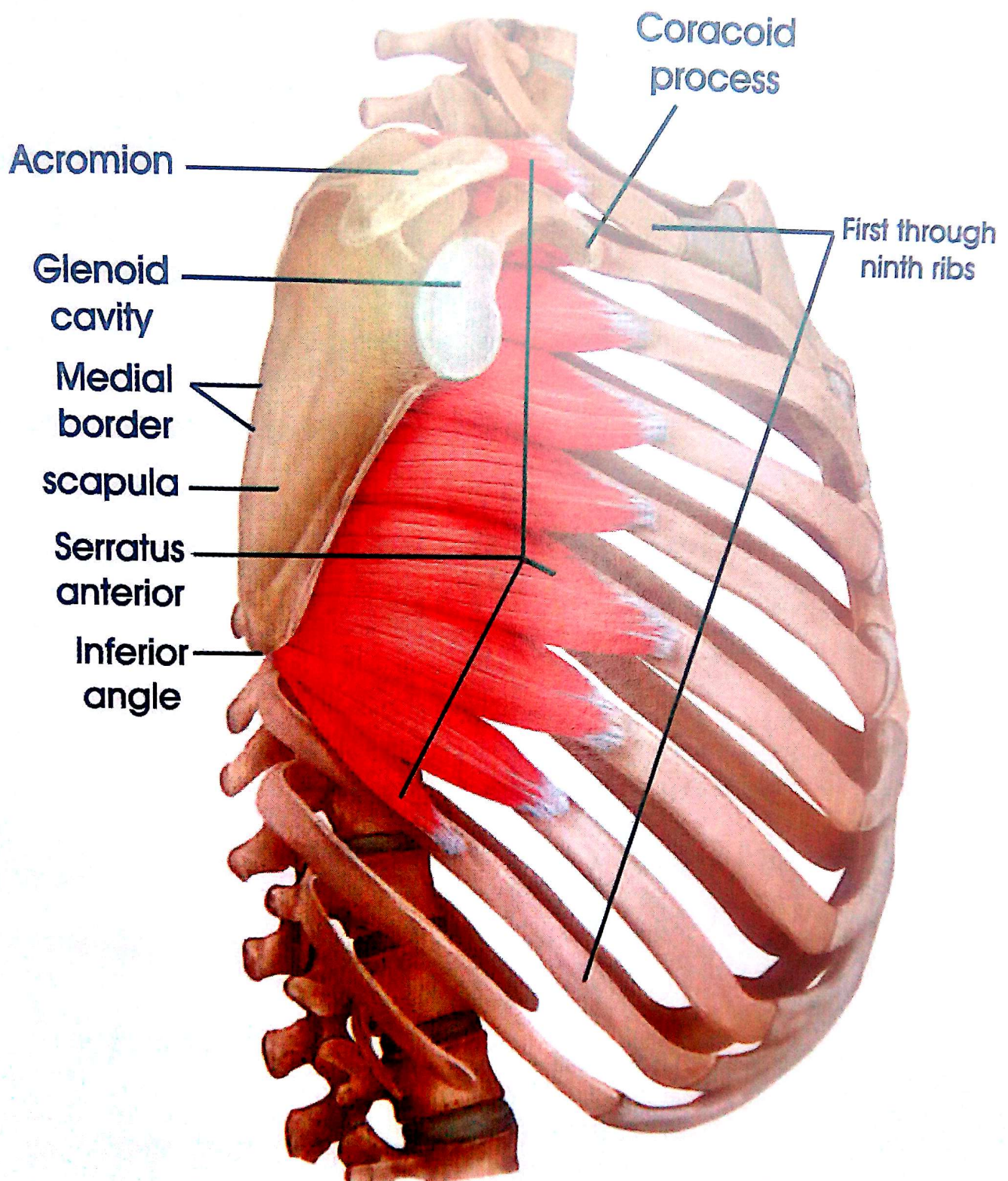
The Anterior Muscles of the Shoulder Girdle and Shoulder Joint



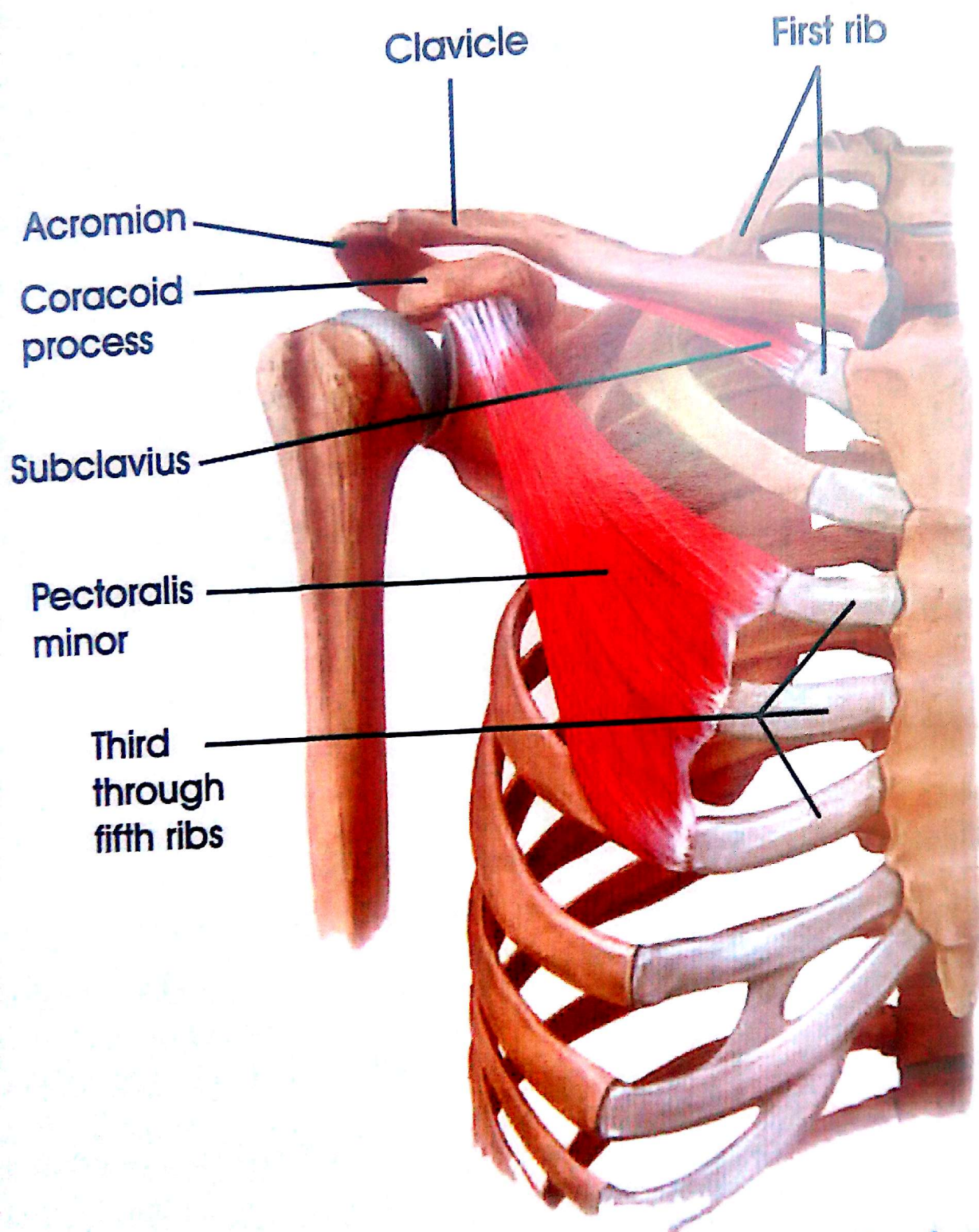
The Anterior Muscles of the Right Shoulder and Arm



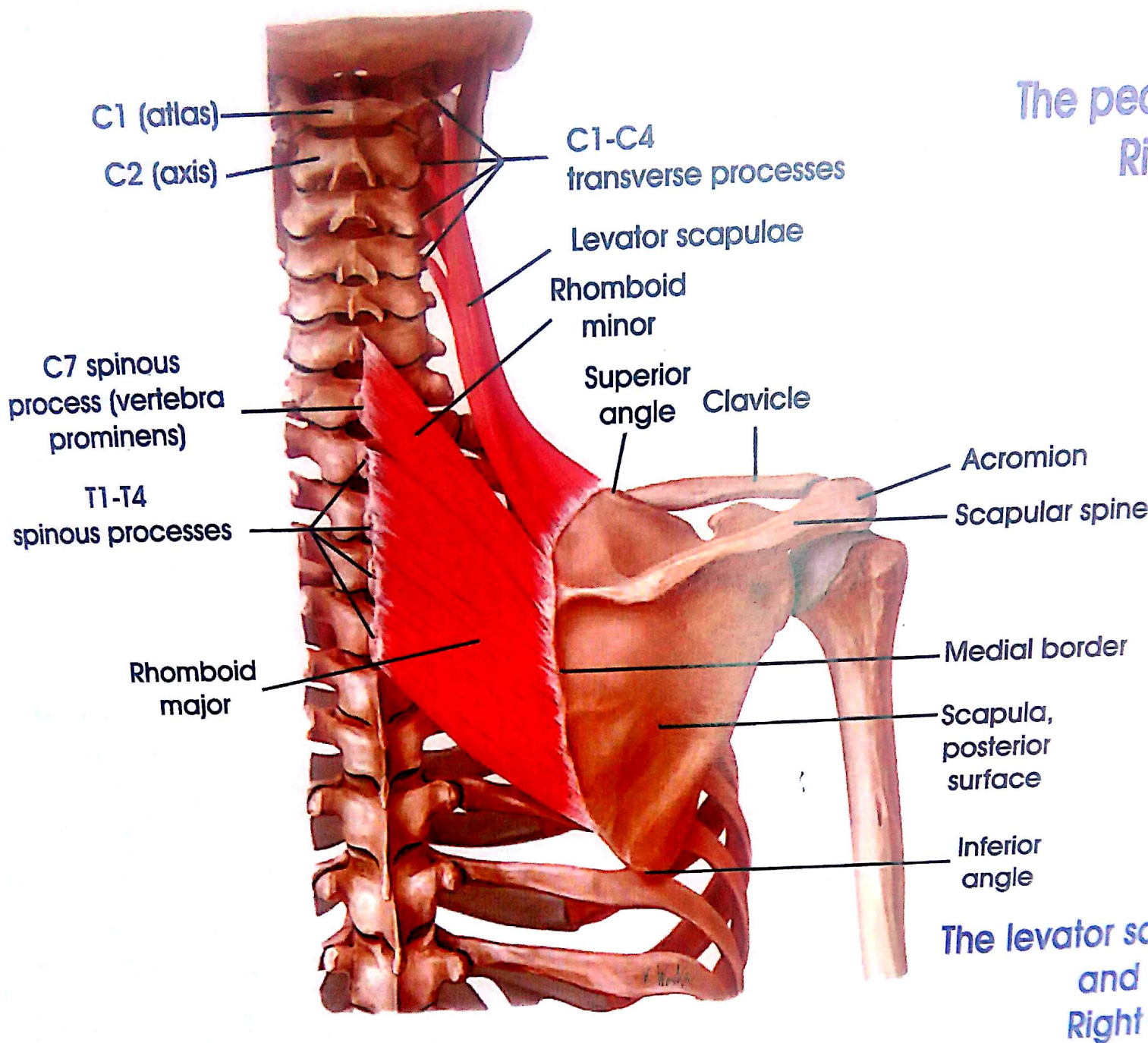




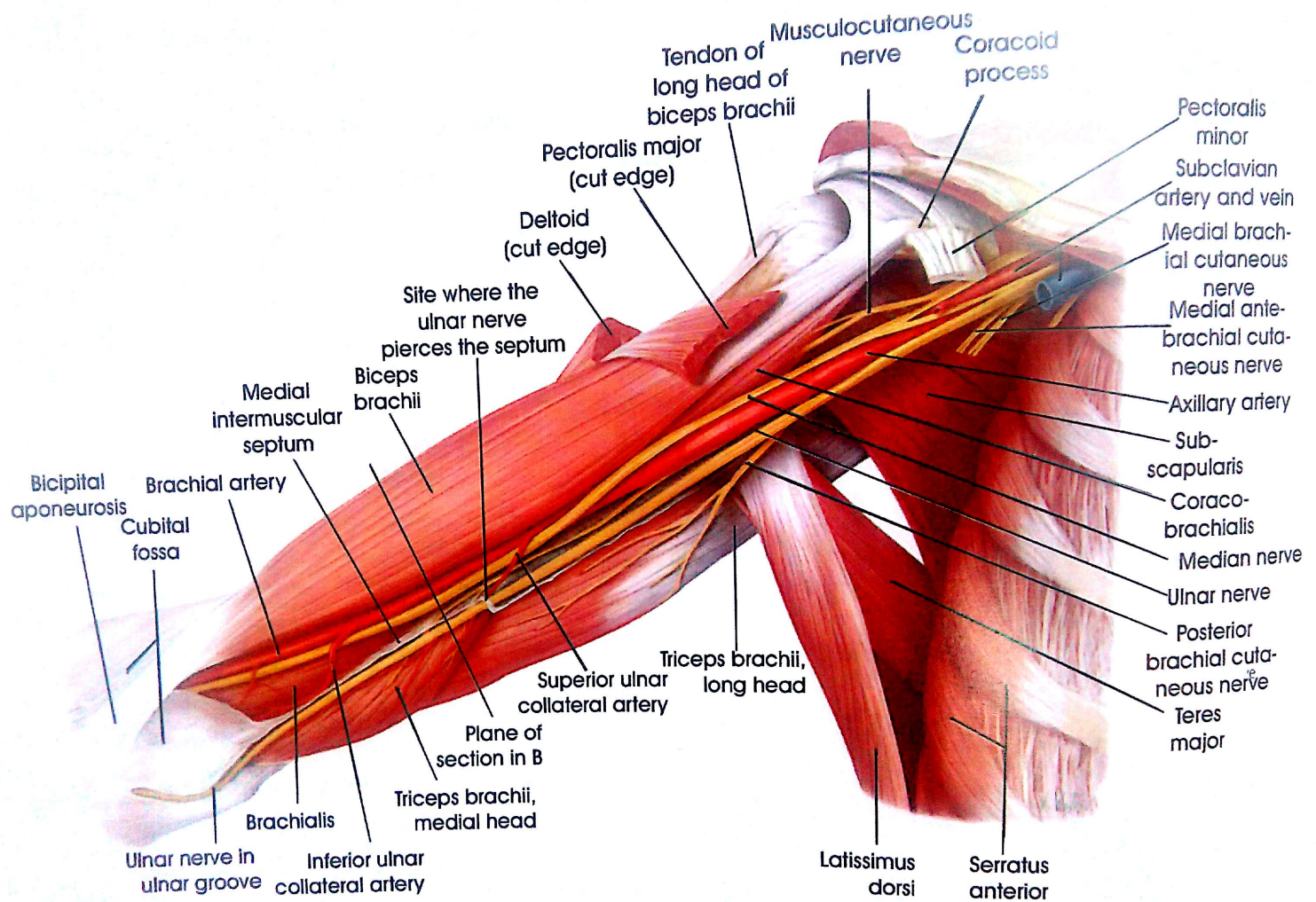
**The serratus anterior
Right side, Lateral View.**



**The pectoralis minor and subclavius
Right side, Anterior View.**



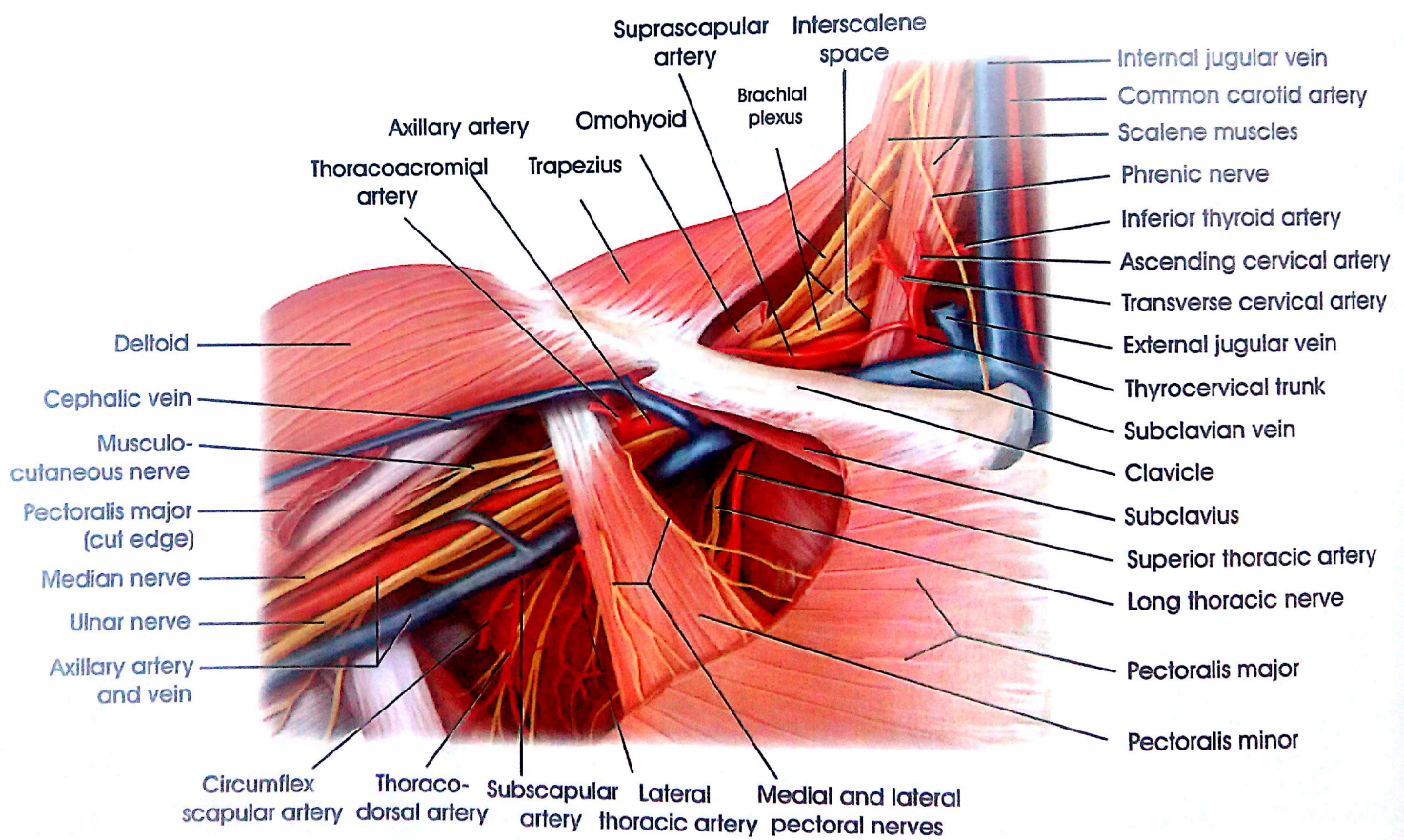
Muscles connecting Upper Limb to the



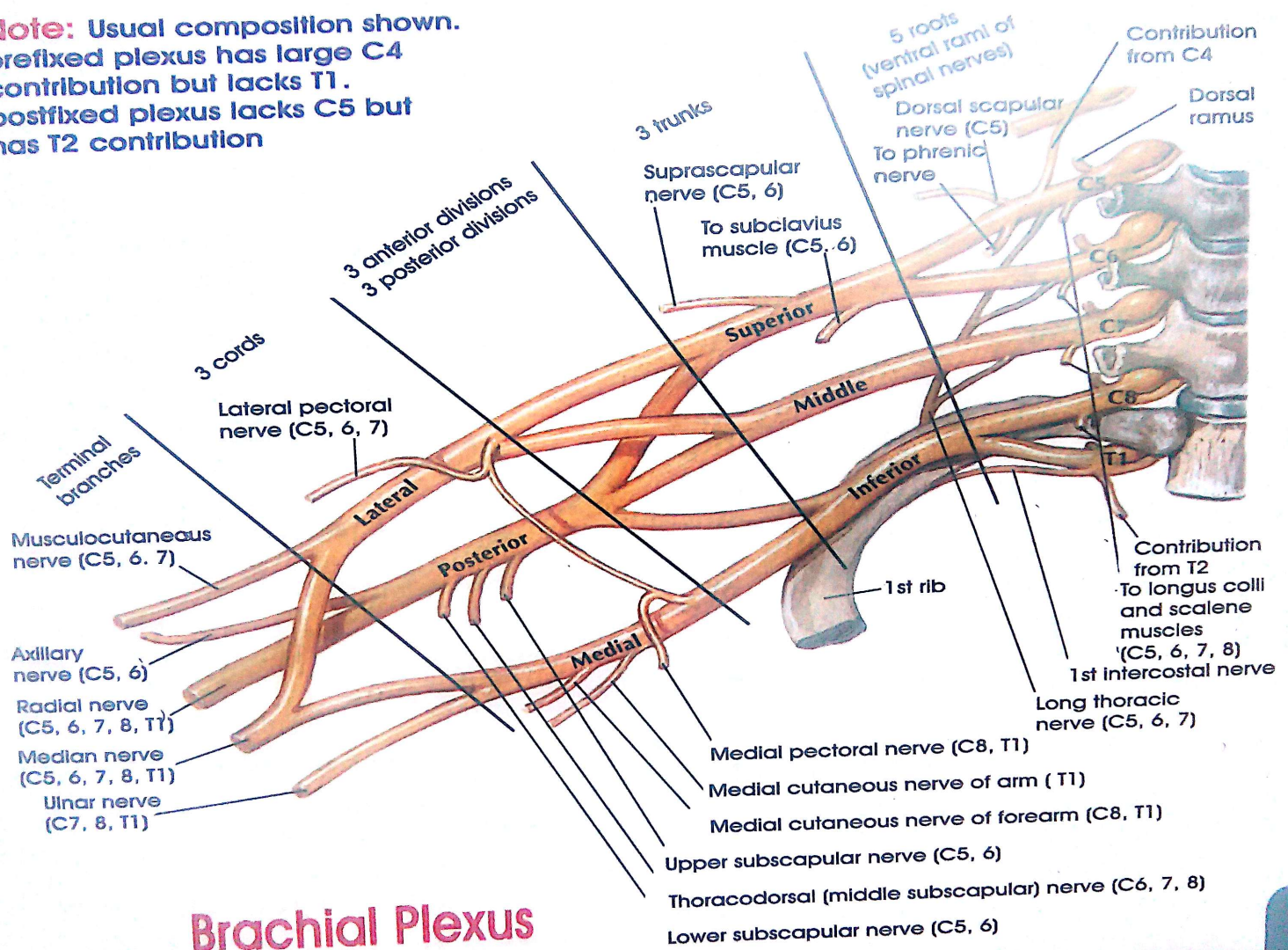
Bounderies and Content of the Axilla

UPPER LIMB

Ficky's

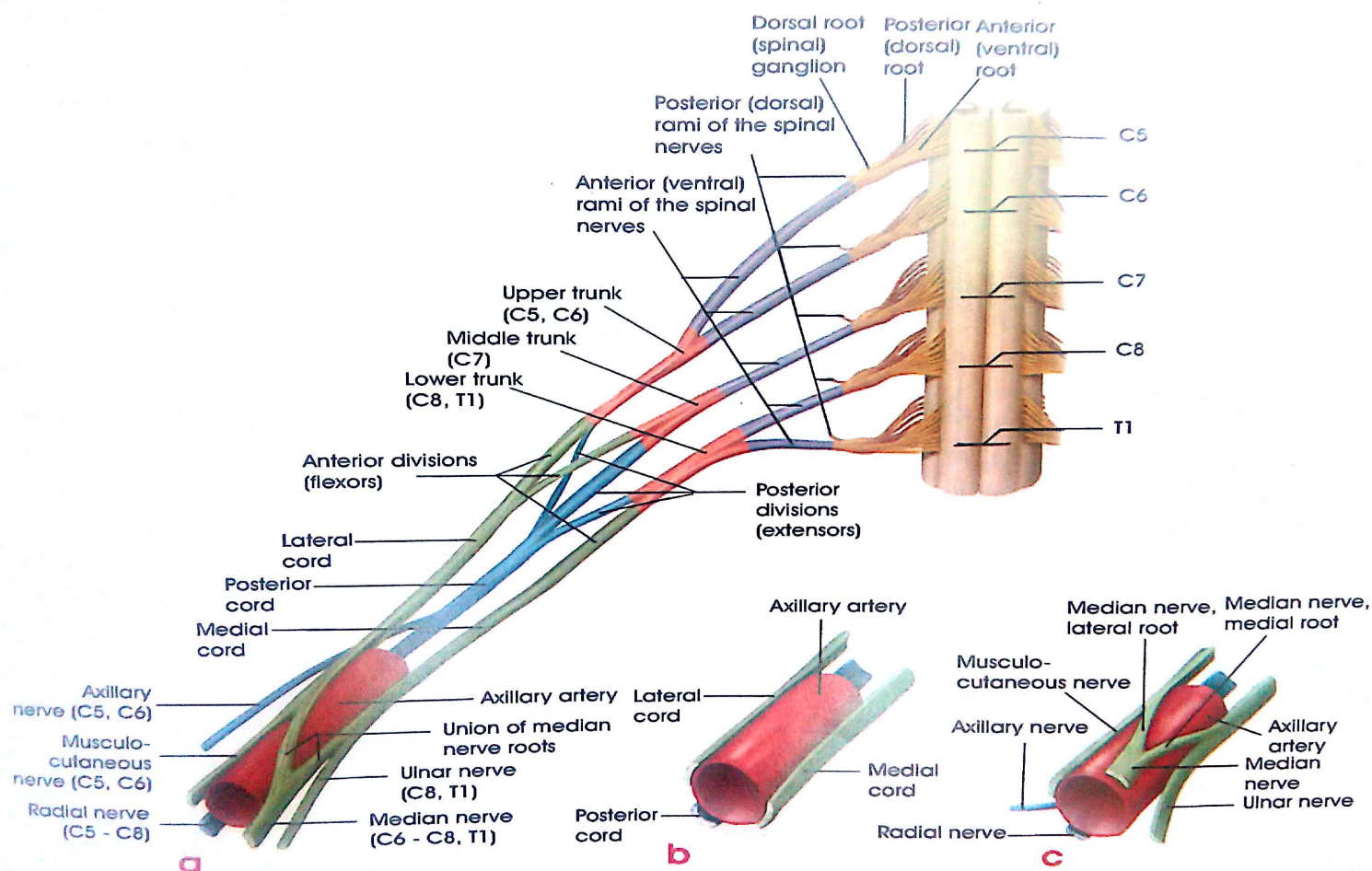


Note: Usual composition shown.
 prefixed plexus has large C4 contribution but lacks T1.
 postfixed plexus lacks C5 but has T2 contribution



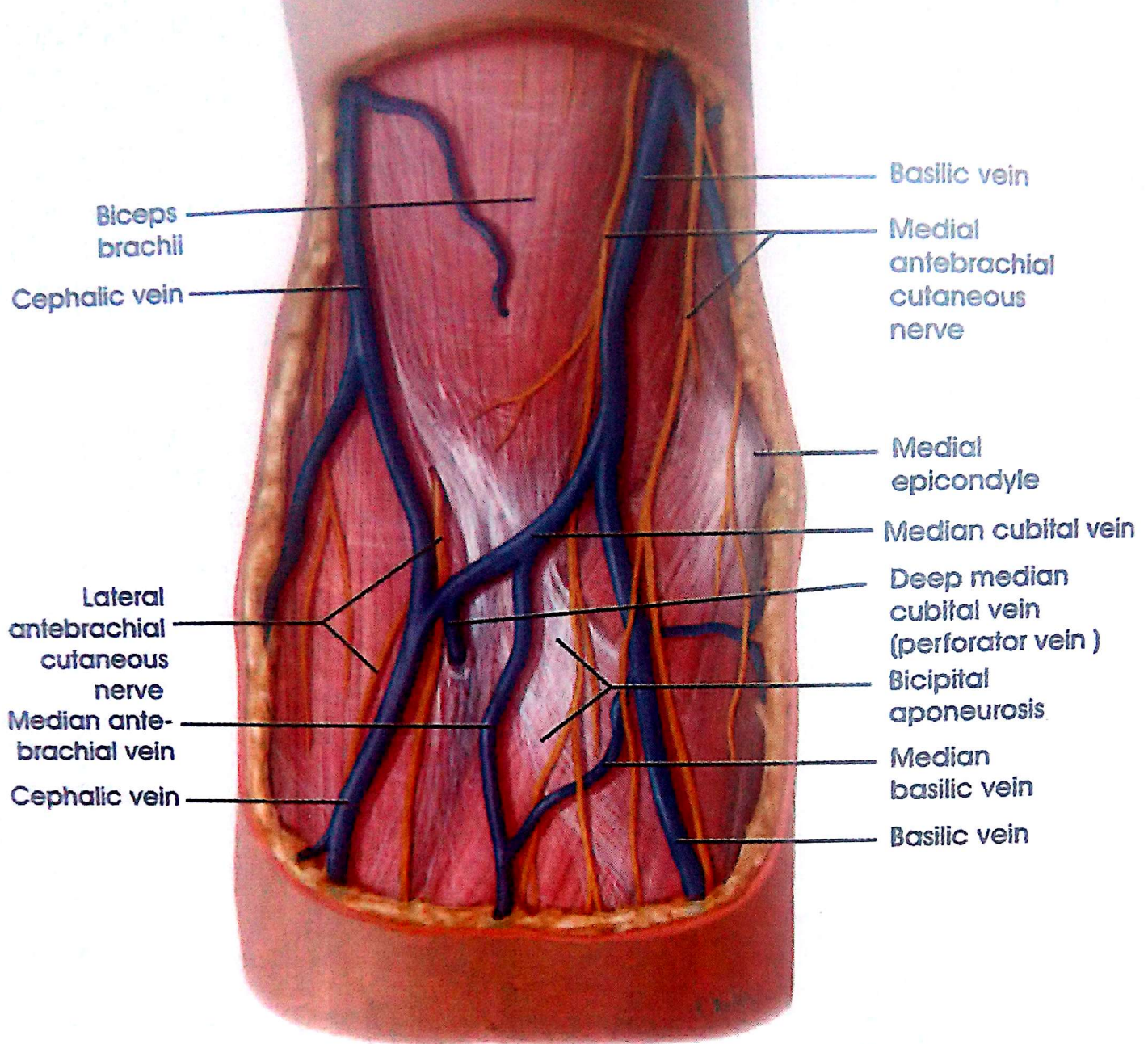
Brachial Plexus

BY: DR. MOHAMED EL-FIKY



Schematic representation of the Structure of the Brachial plexus

- a Names and sequence of the various elements of the brachial plexus.
- b Relationship of the lateral, medial, and posterior cords of the brachial plexus to the axillary artery.
- c Subdivision of the brachial plexus cords into their main branches.

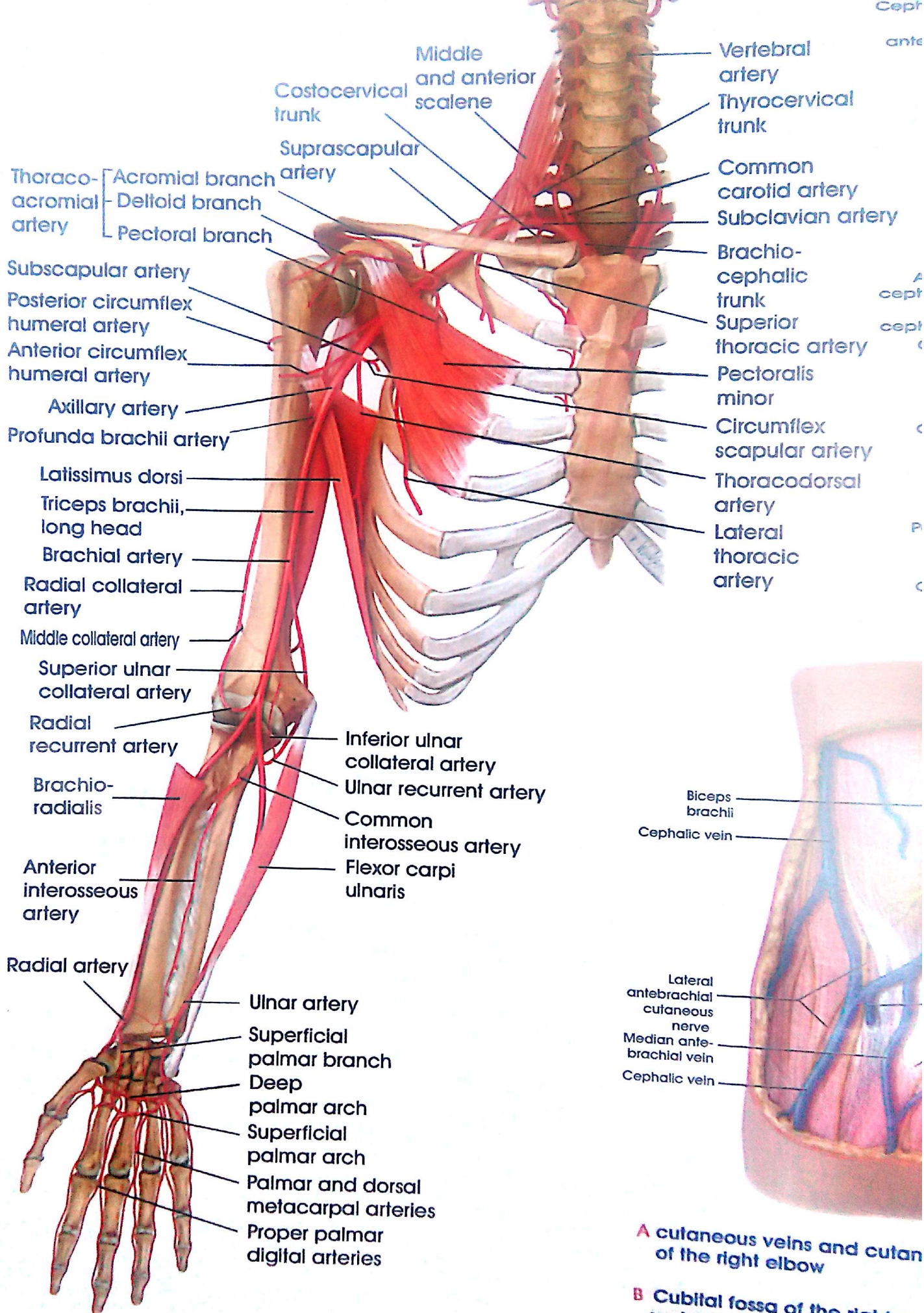


A cutaneous veins and cutaneous nerves of the right elbow

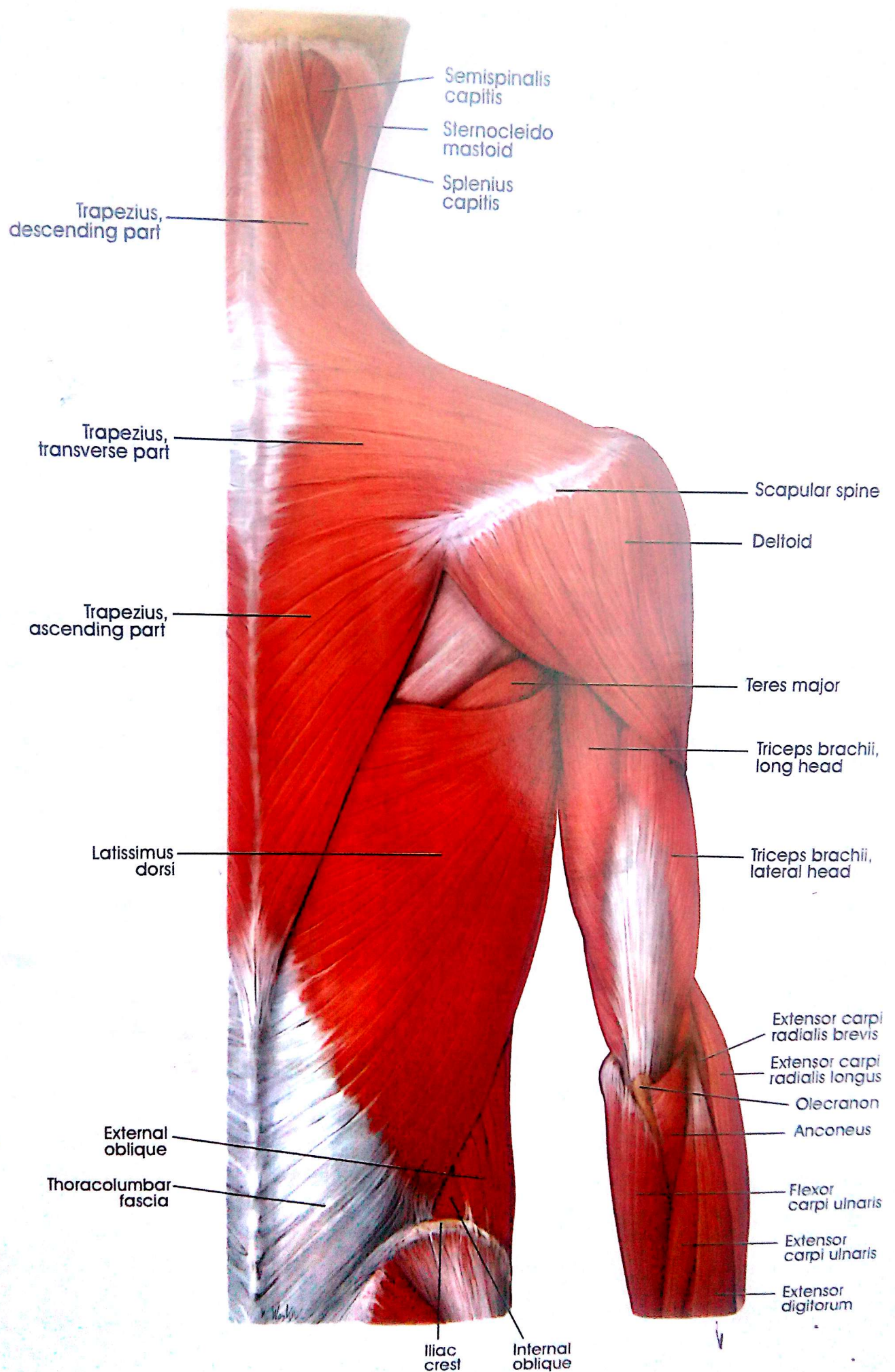
B Cubital fossa of the right arm: variable course of the subcutaneous veins

- a M-shaped venous pattern above the median antebrachial vein.
 - b Presence of an accessory cephalic vein from the venous plexuses on the extensor side of the forearm.
 - c Absence of the median cubital vein.
- All of the illustrated variants are common.

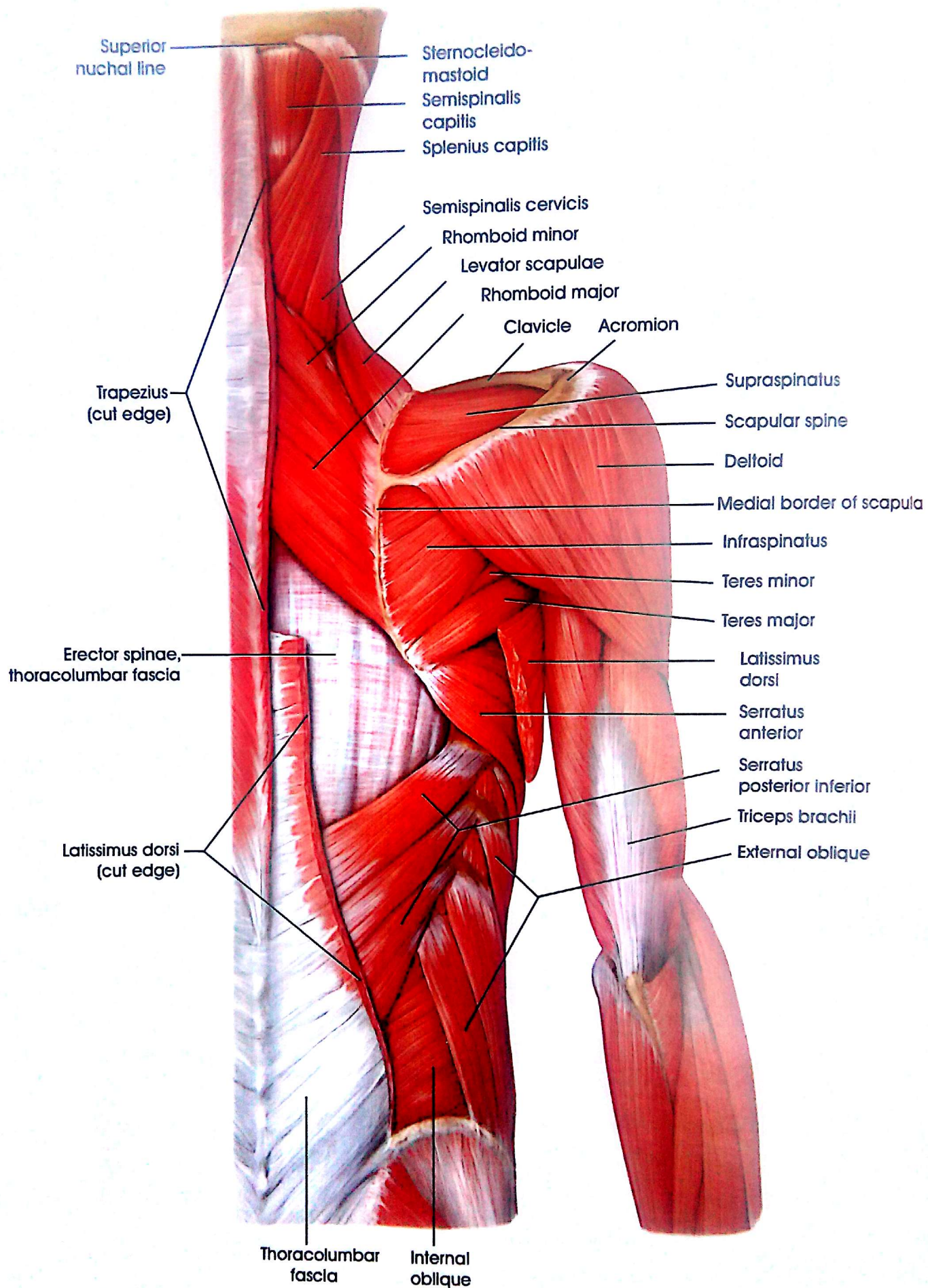
Veins of the Upper Limb



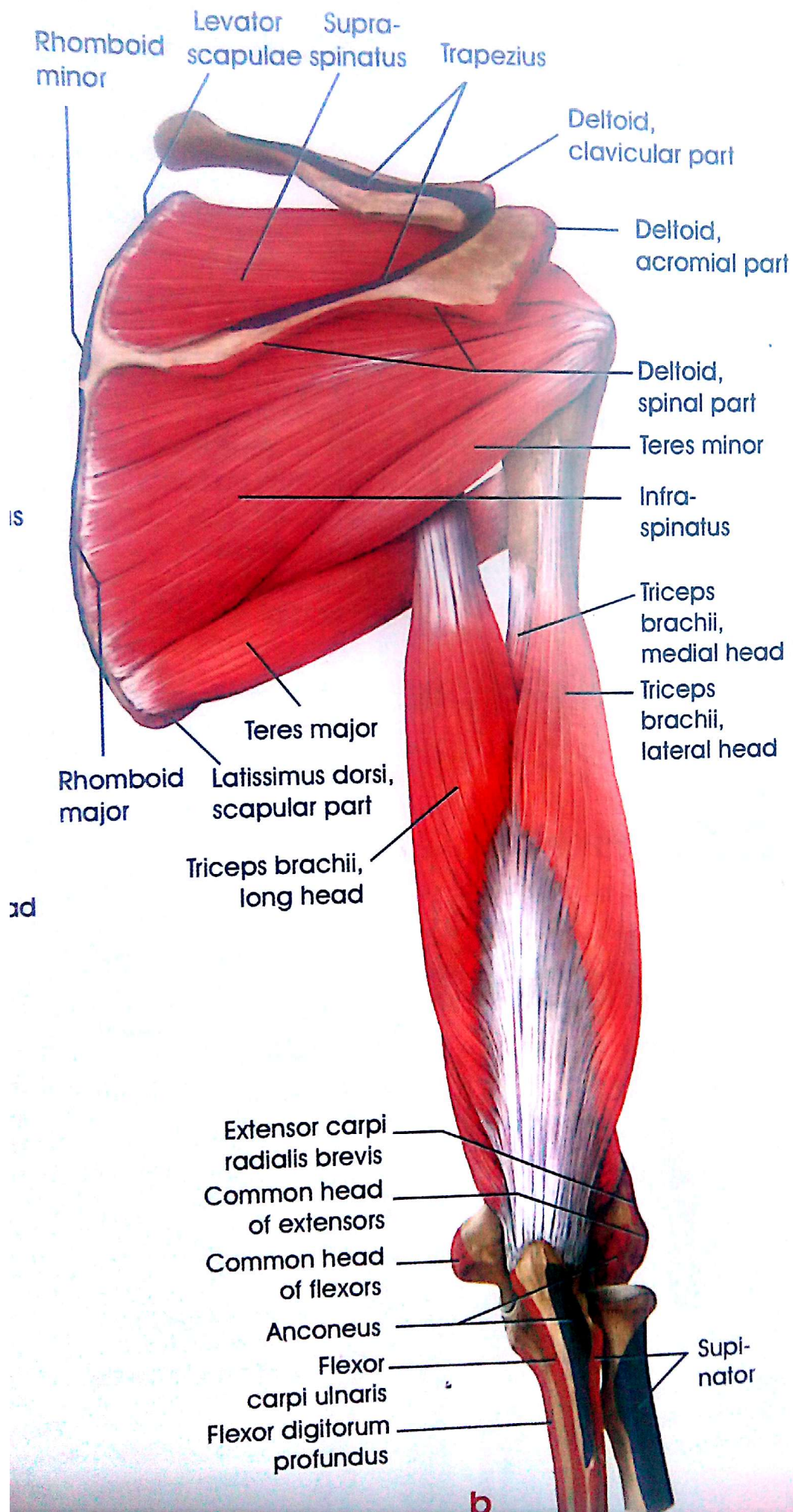
Arteries of the Right Upper Limb

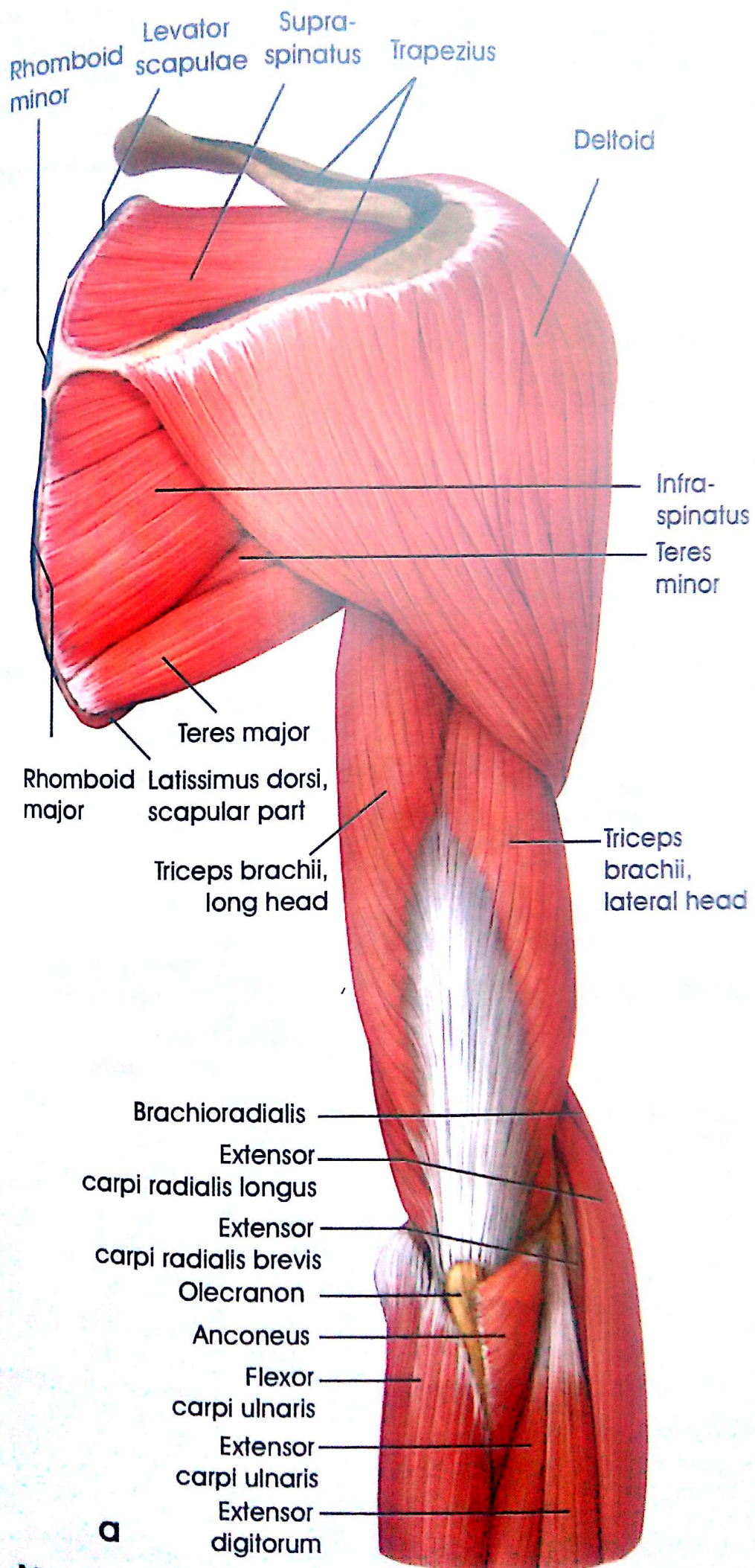


The Posterior Muscles of the Shoulder Girdle and Shoulder Joint

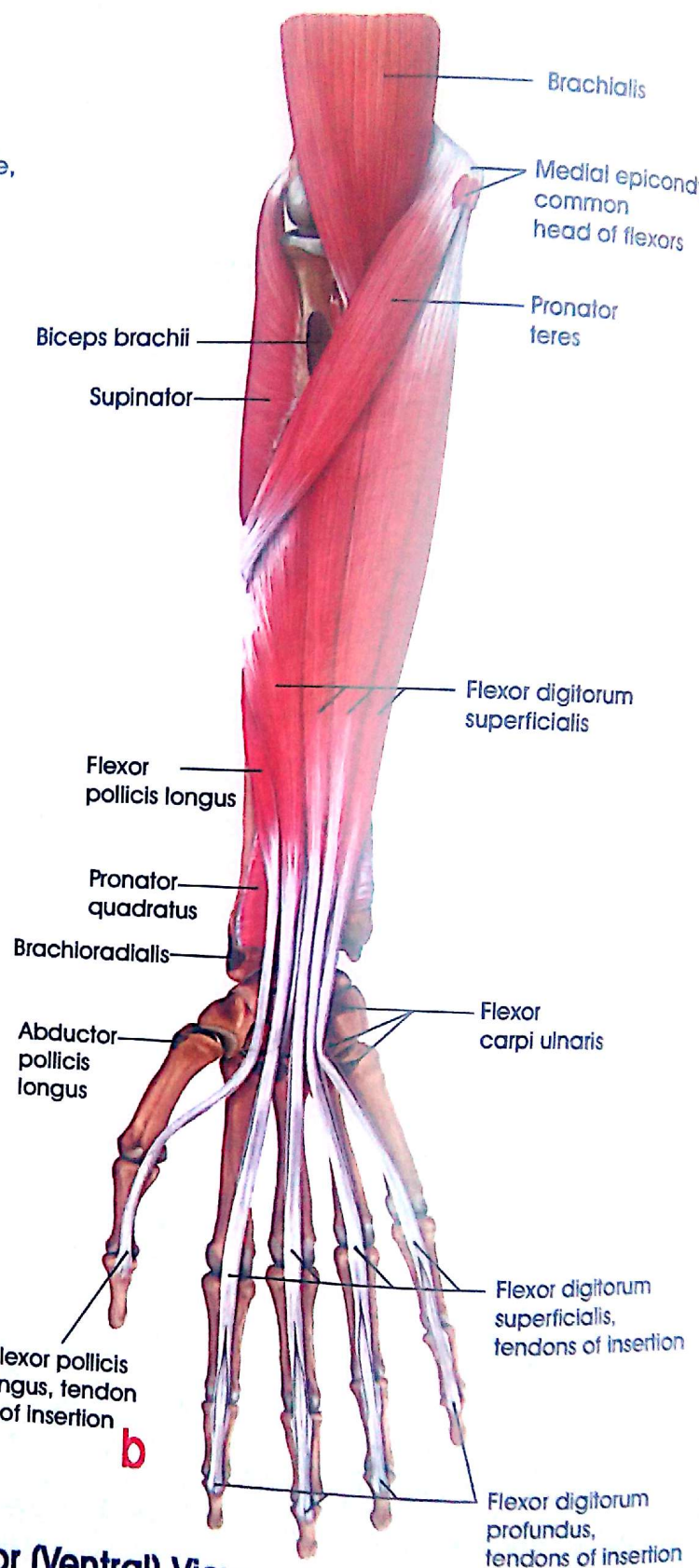
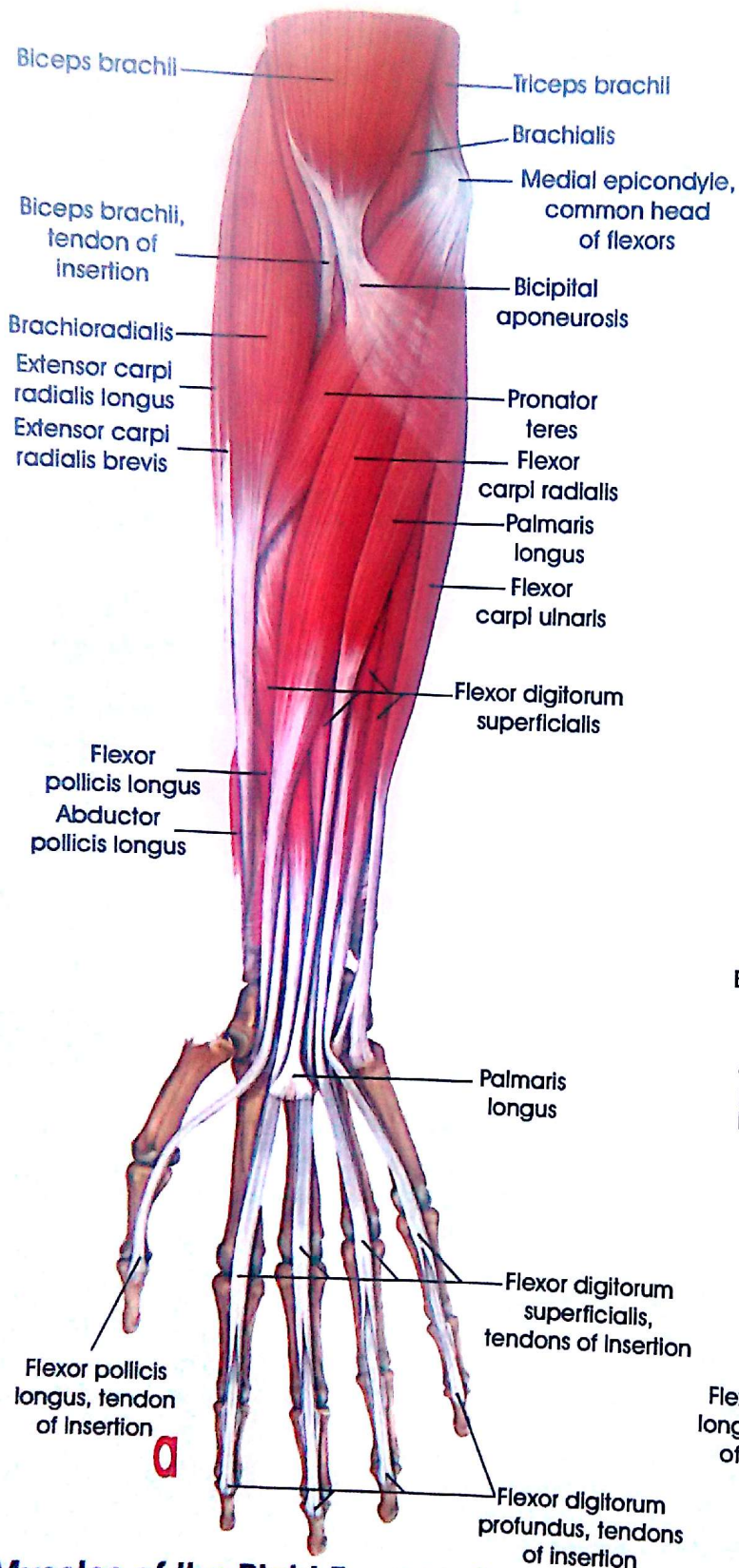


The Posterior Muscles of the Shoulder Girdle and Shoulder Joint (Deep Layer)





a

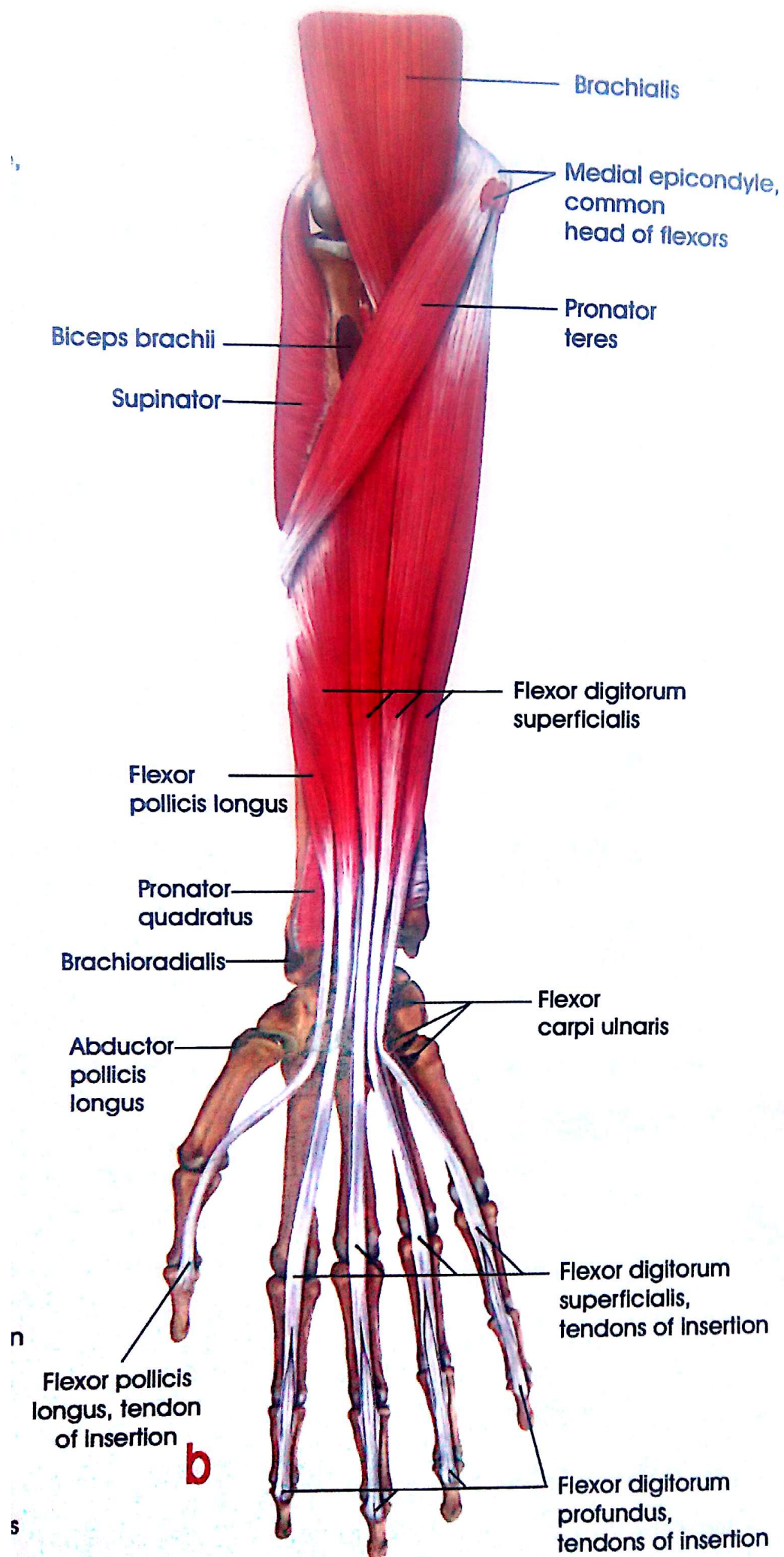


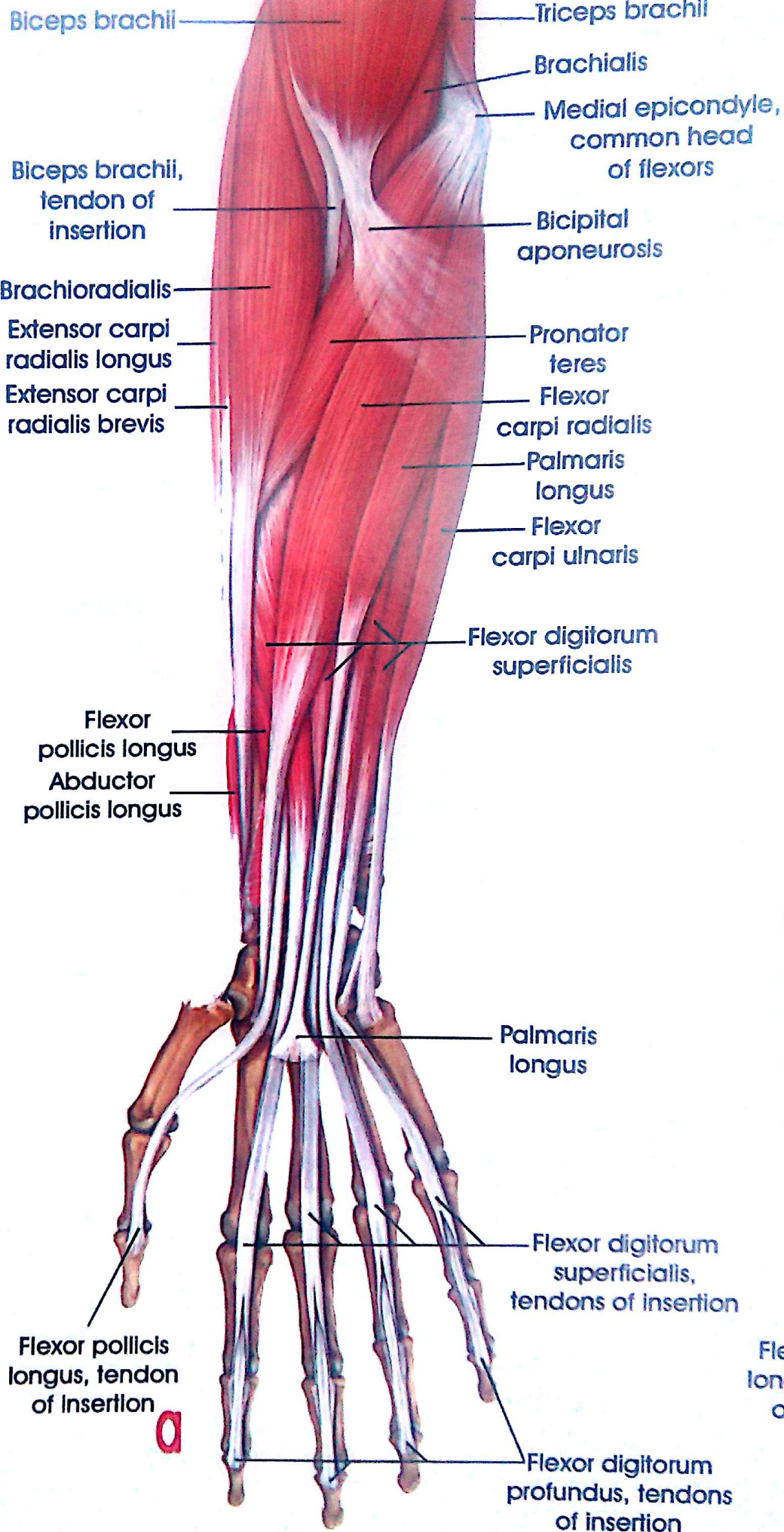
Muscles of the Right Forearm from the Anterior (Ventral) View

The origins and insertions of the muscles indicated by color shading (red = origin, blue = insertion).

- a** The superficial flexors and the radialis group are shown.
- b** The radialis group (brachioradialis, extensor carpi radialis longus with flexor carpi radialis, flexor carpi ulnaris, abductor pollicis longus, palmaris longus, and biceps brachii).

The Anterior Muscles of the Forearm

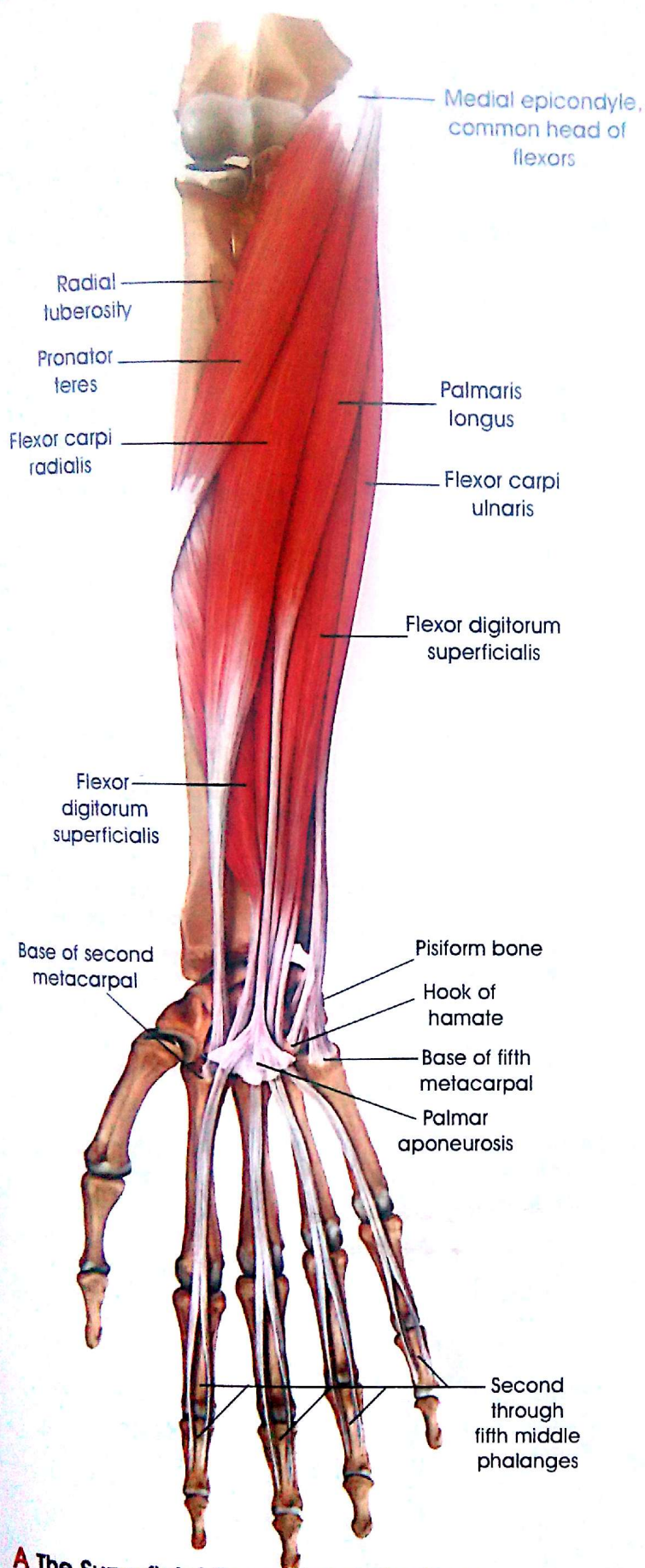




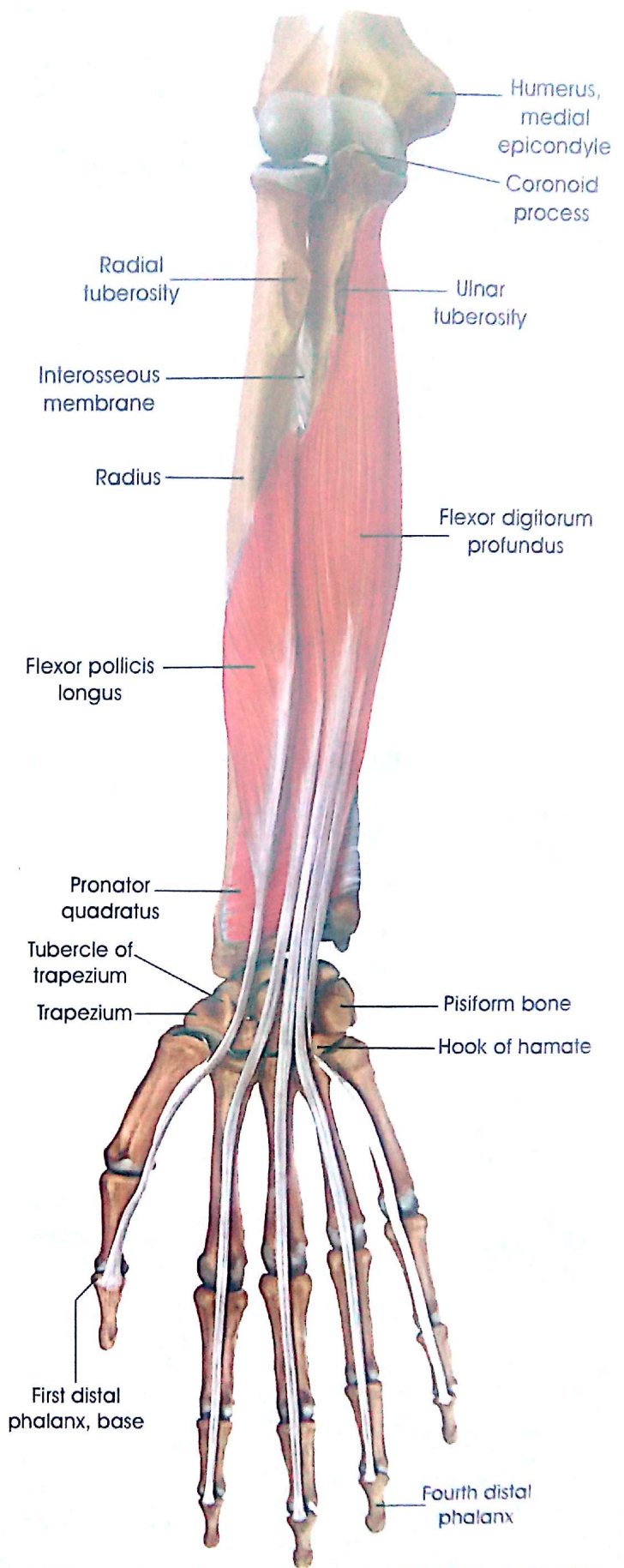
Muscles of the Right Forearm from the Anterior

the origins and insertions of the muscles

◻ The superficial flexors

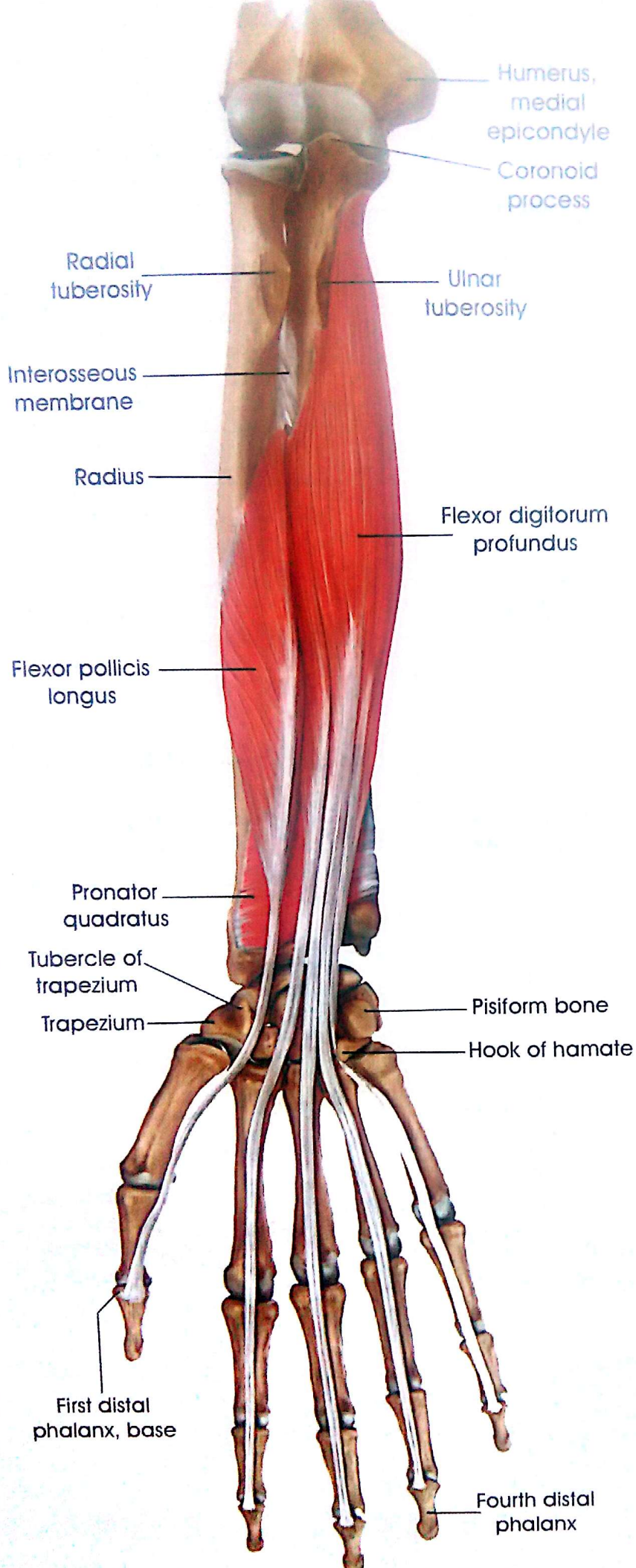


A The Superficial flexors (pronator teres, flexor digitorum superficialis, flexor carpi radialis, flexor carpi ulnaris, and palmaris longus)

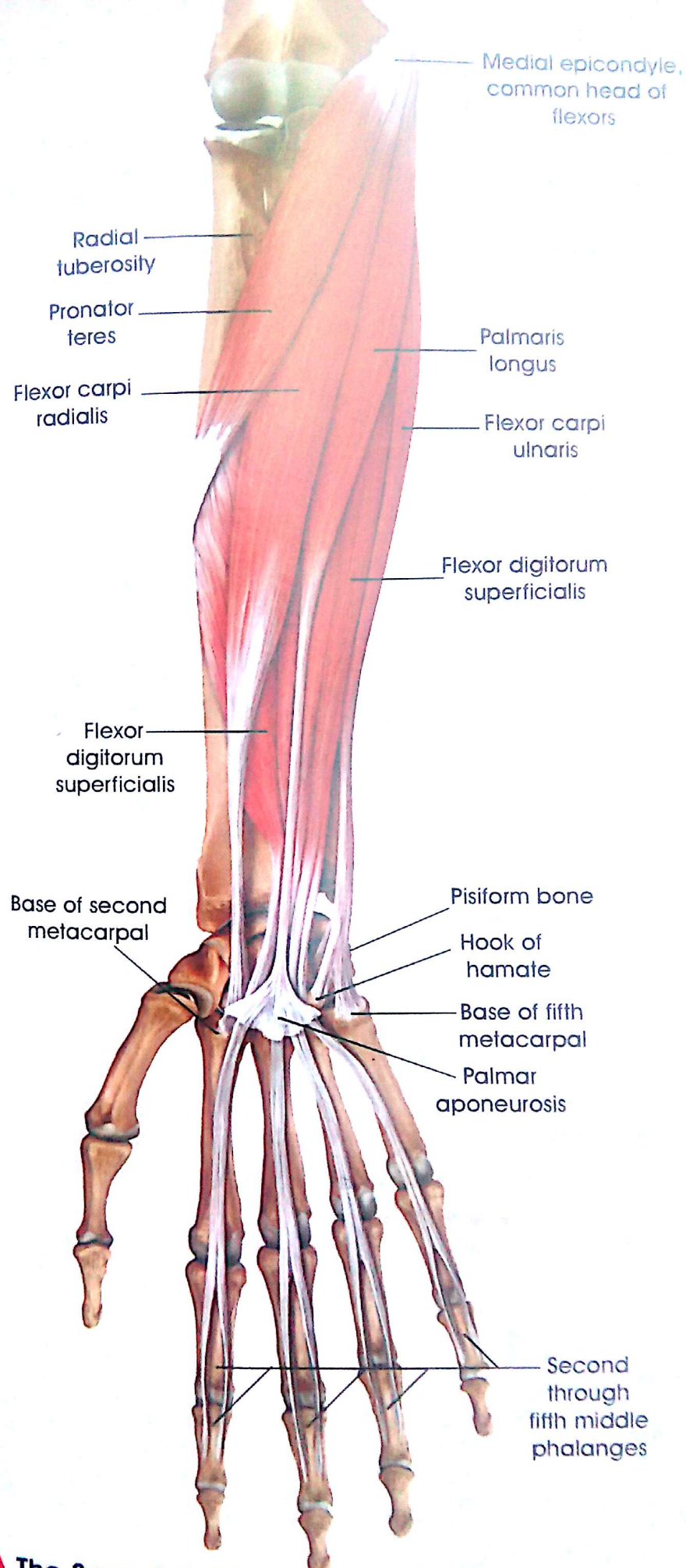


B The Deep flexors (flexor digitorum profundus, flexor pollicis longus, and pronator quadratus)

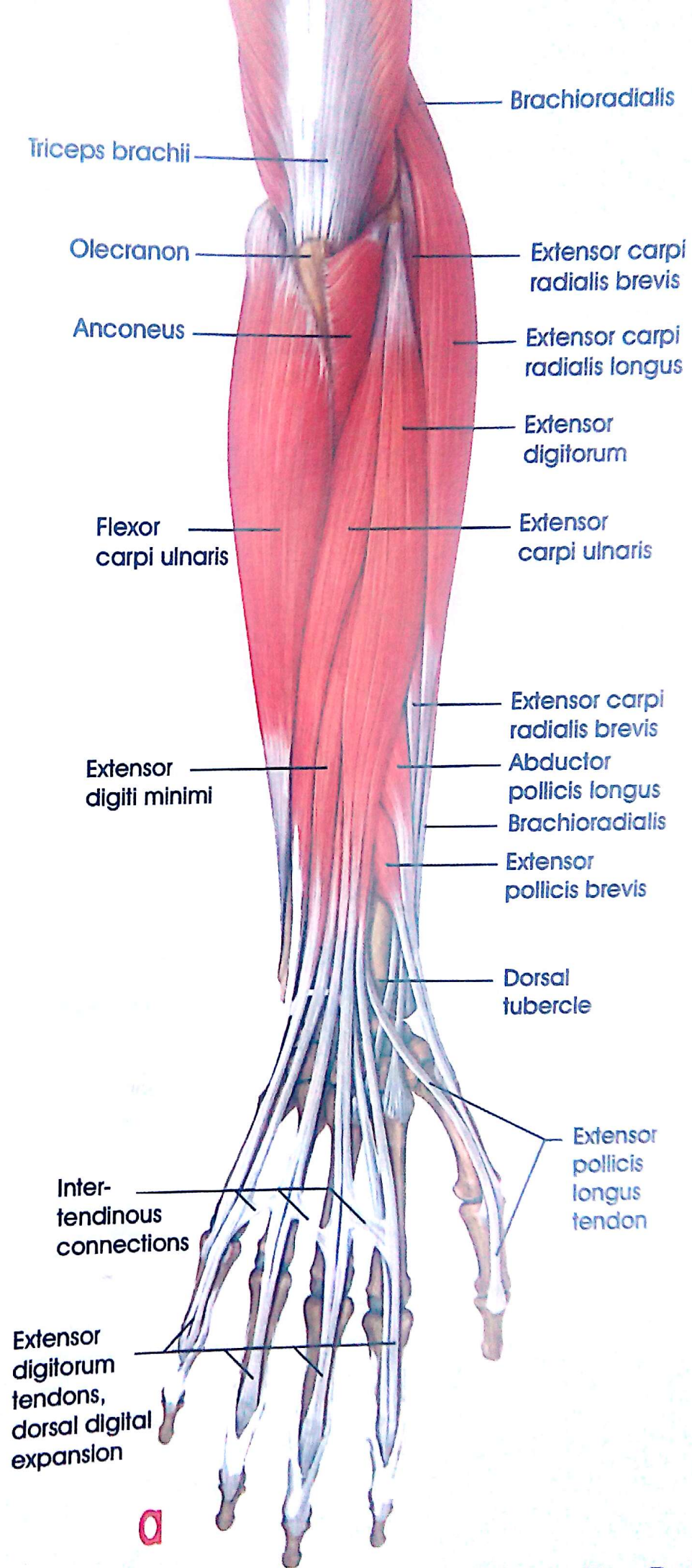
The Anterior Muscles of The Right Forearm

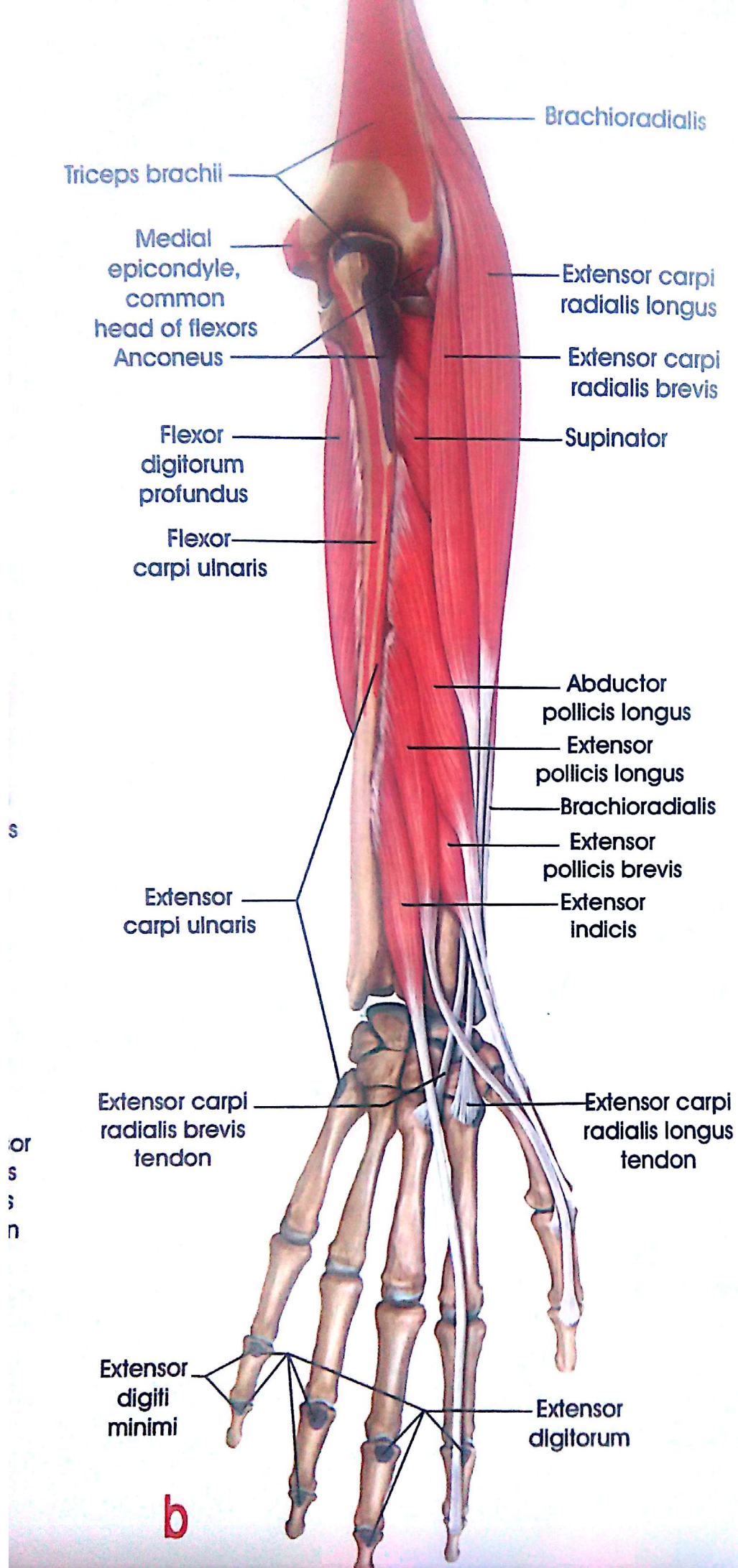


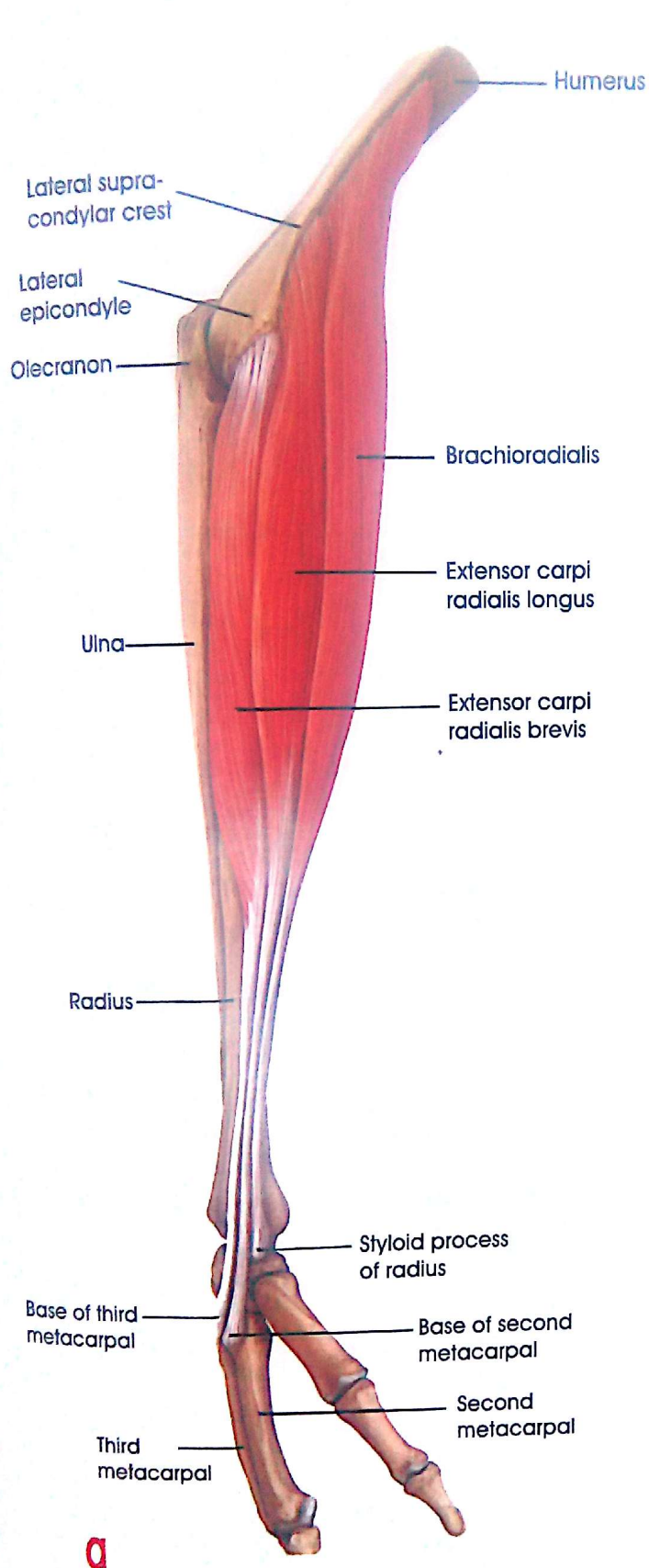
B The Deep flexors (flexor digitorum profundus, flexor pollicis longus, and



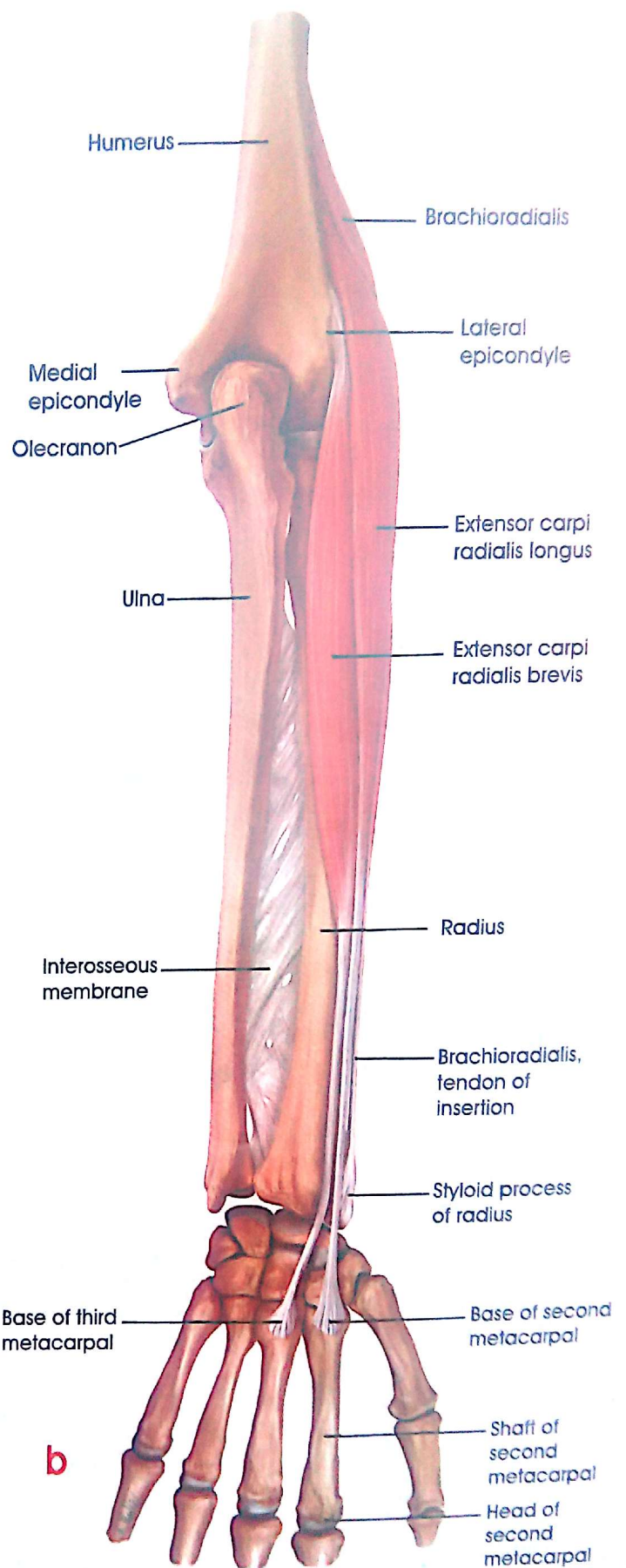
A The Superficial flexors (pronator teres, flexor digitorum superficialis, flexor carpi radialis, flexor carpi ulnaris, and palmaris longus)





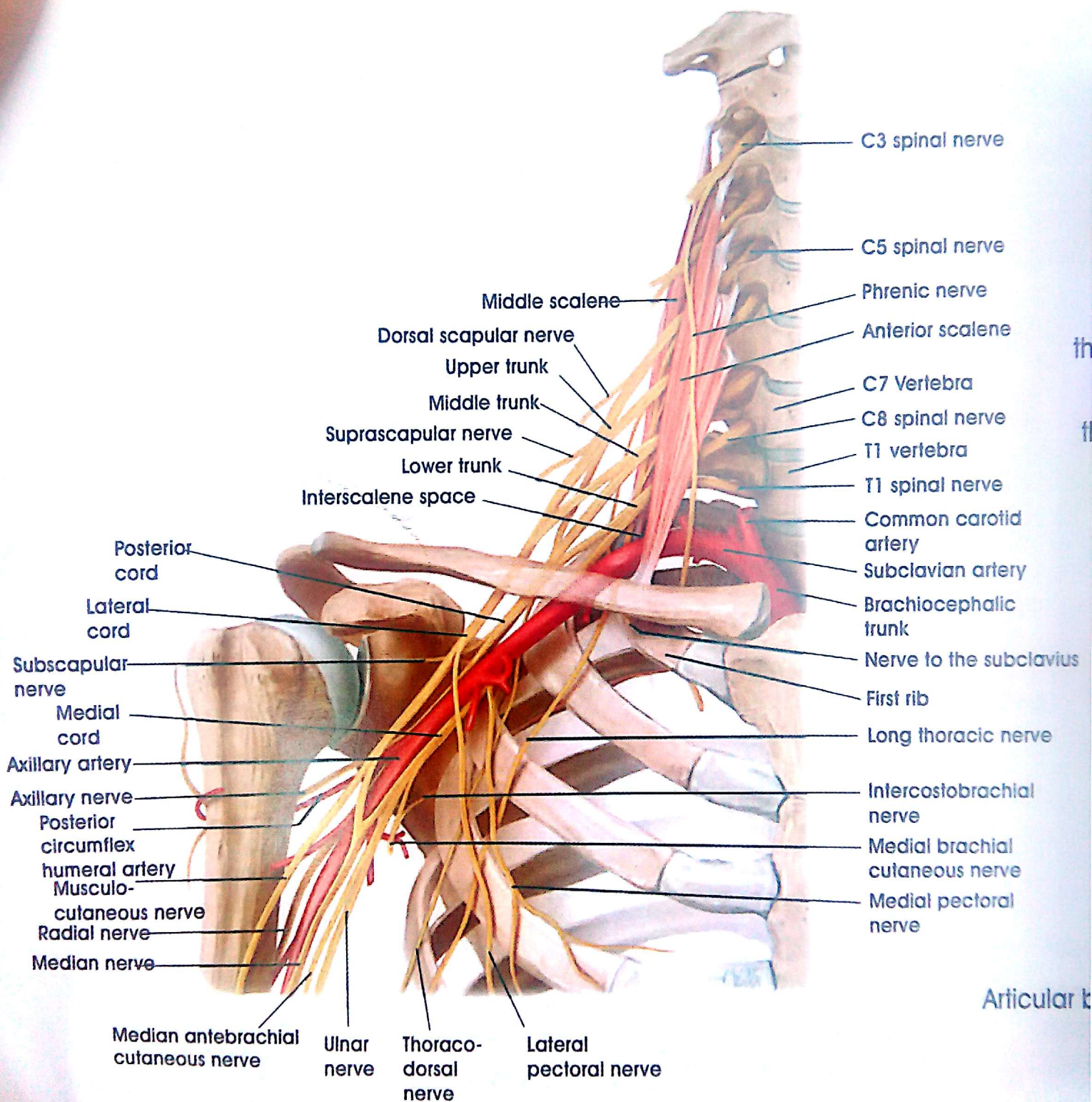


Lateral (Radial) View



Posterior (Dorsal) View

The Radialis Muscles (brachioradialis, extensor carpi radialis longus, and extensor carpi radialis brevis)

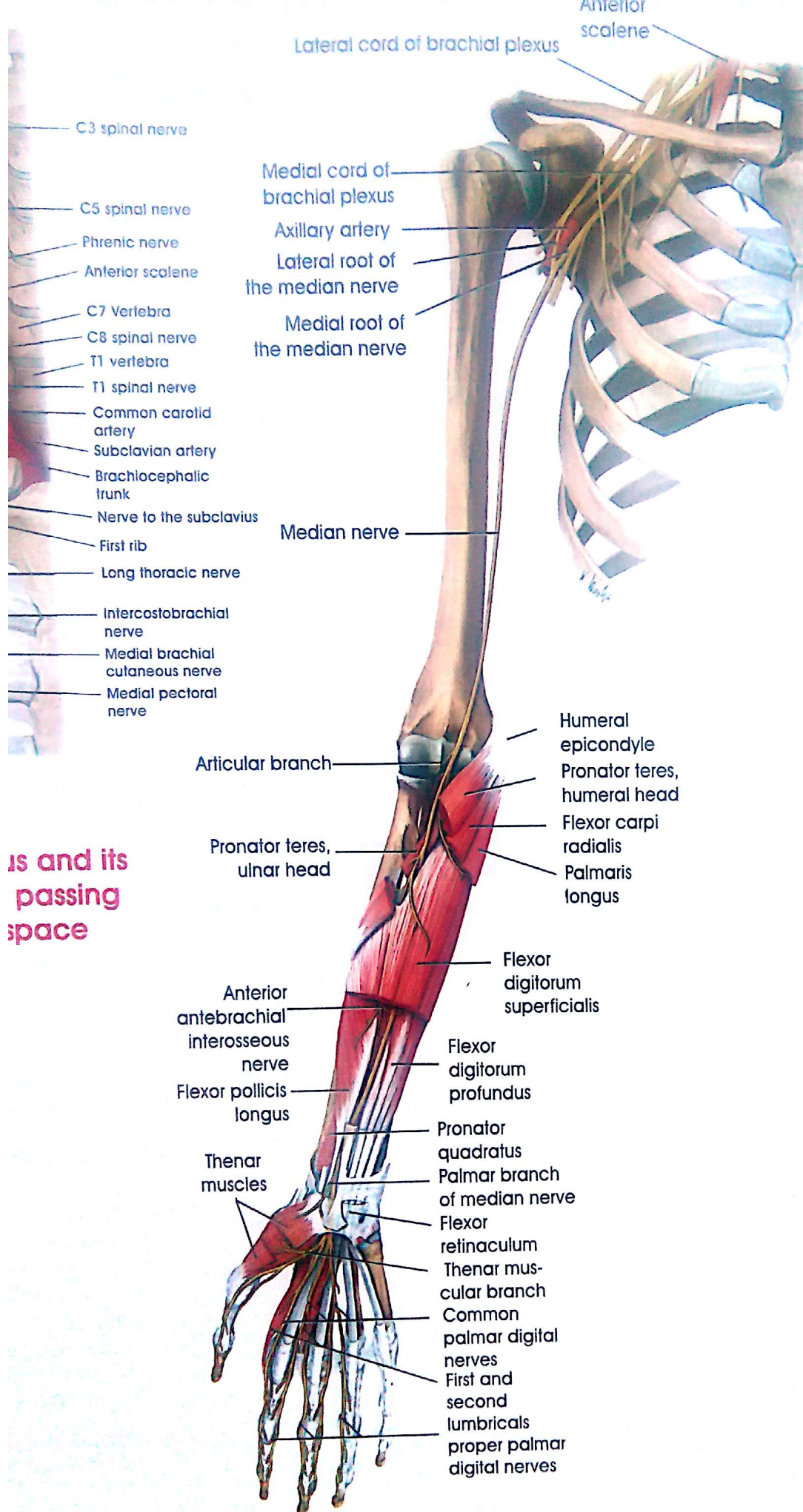


Course of the Brachial Plexus and its relation to the thorax after passing through the interscalene space

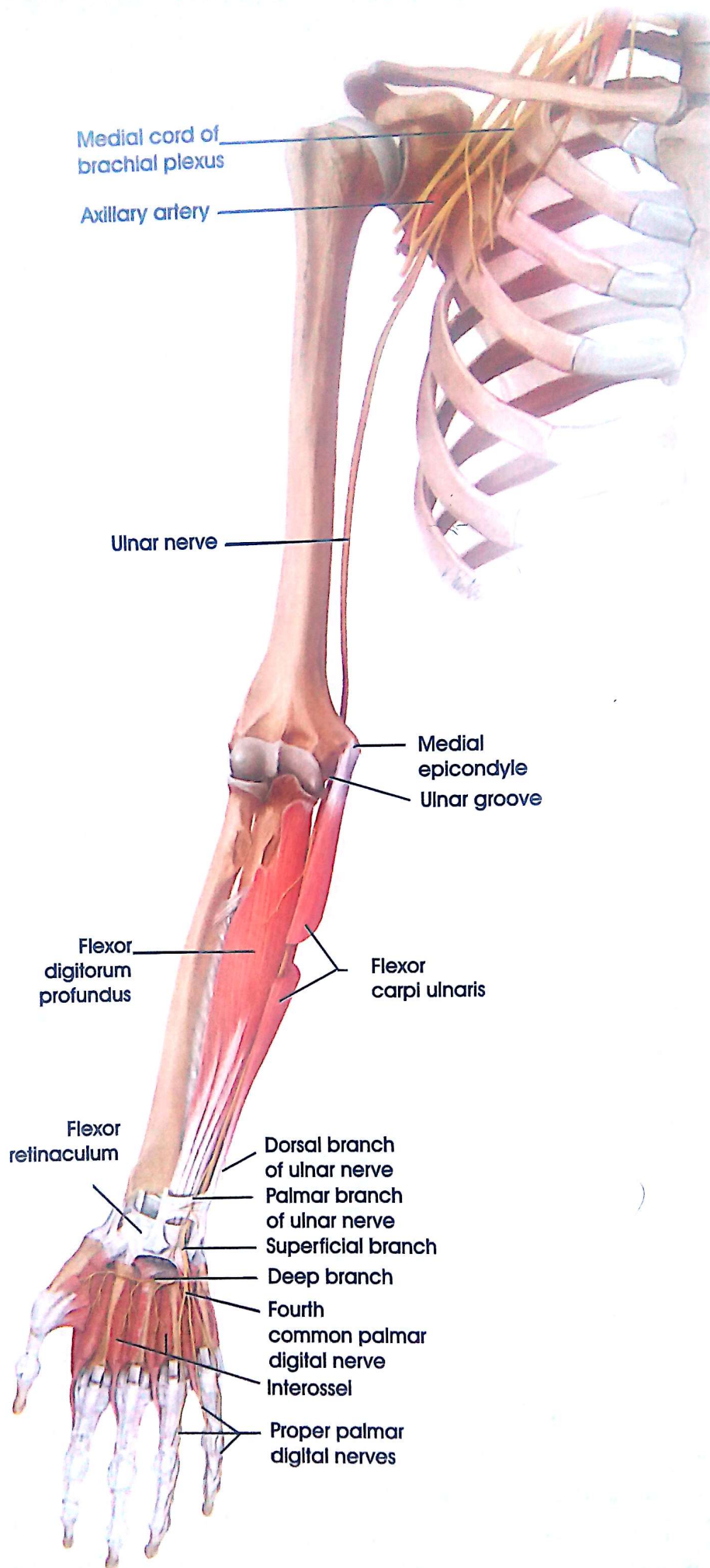
Articular b

Pronator
ulnar

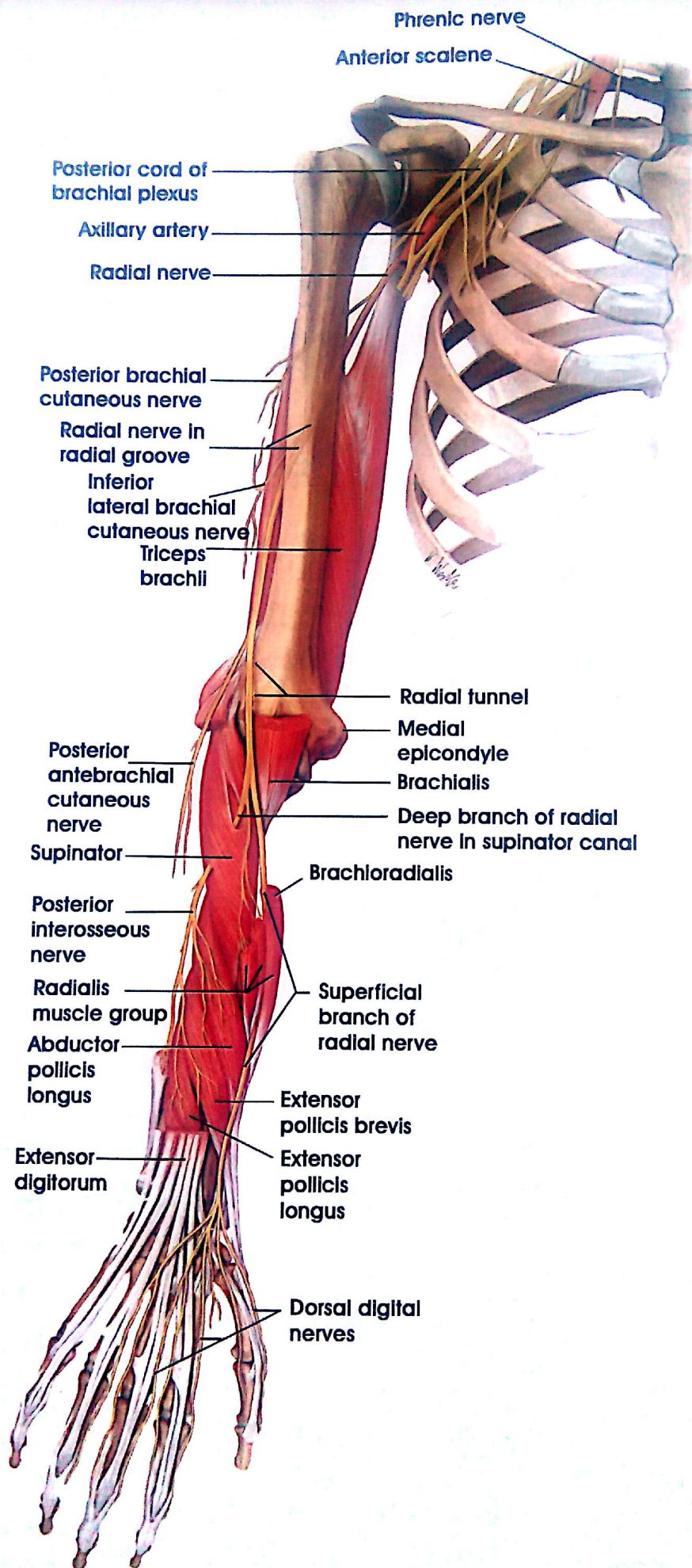
Anterior



Course and Distribution of the Median Nerve



Course and Distribution of Ulnar Nerve



Course and Distribution of Radial Nerve

Palmar
digital nerves

Palmar
digital arteries

common
palmar digital
arteries

Abductor
digiti minimi

Flexor digiti
minimi

Palmar meta-
carpal arteries

Opponens
digiti minimi

Superficial
palmar arch

Ulnar nerve,
deep branch

Ulnar nerve,
superficial branch

Ulnar artery,
deep branch

Ulnar artery
and nerve

Pronator
quadratus

Flexor carpi
ulnaris

Lumbricals

Adductor pollicis,
transverse head

Abductor
pollicis brevis

Flexor pollicis
brevis

Adductor pollicis,
oblique head

Deep palmar arch

Opponens pollicis

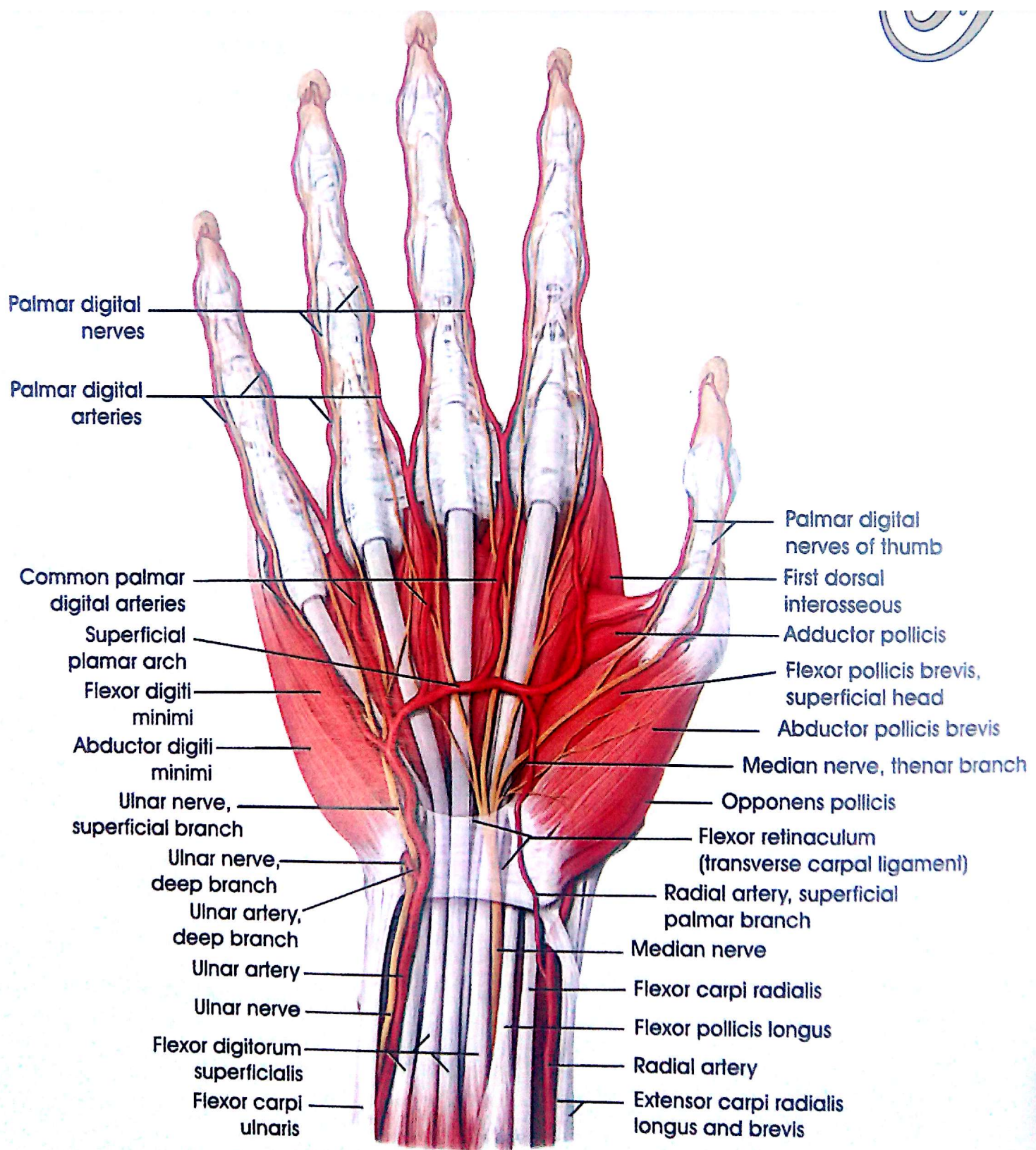
Radial artery,
superficial palmar
branch

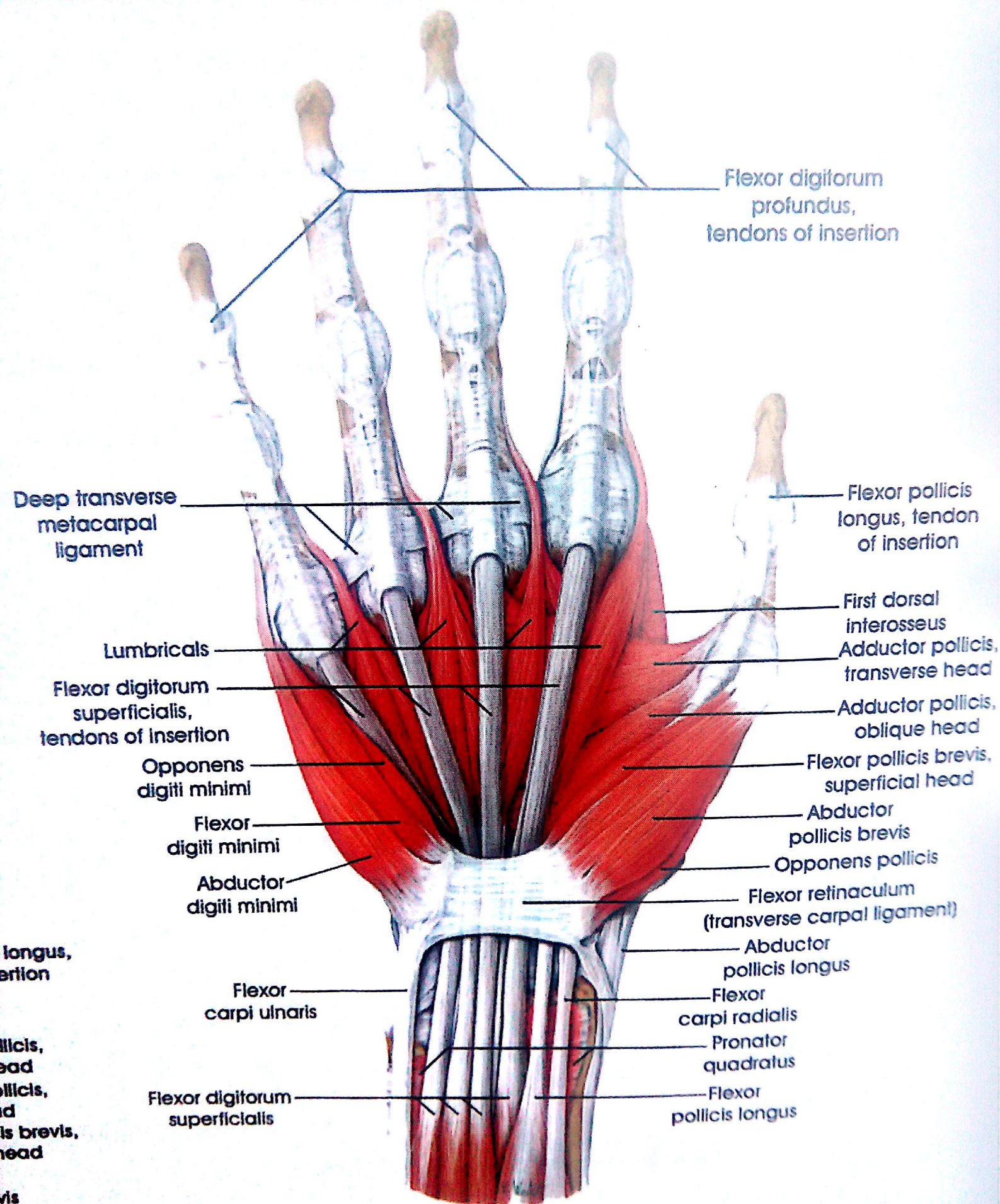
Radial artery

Anterior
interosseous artery

Superficial and Deep Palmar Arch

BY: DR. MOHAMED

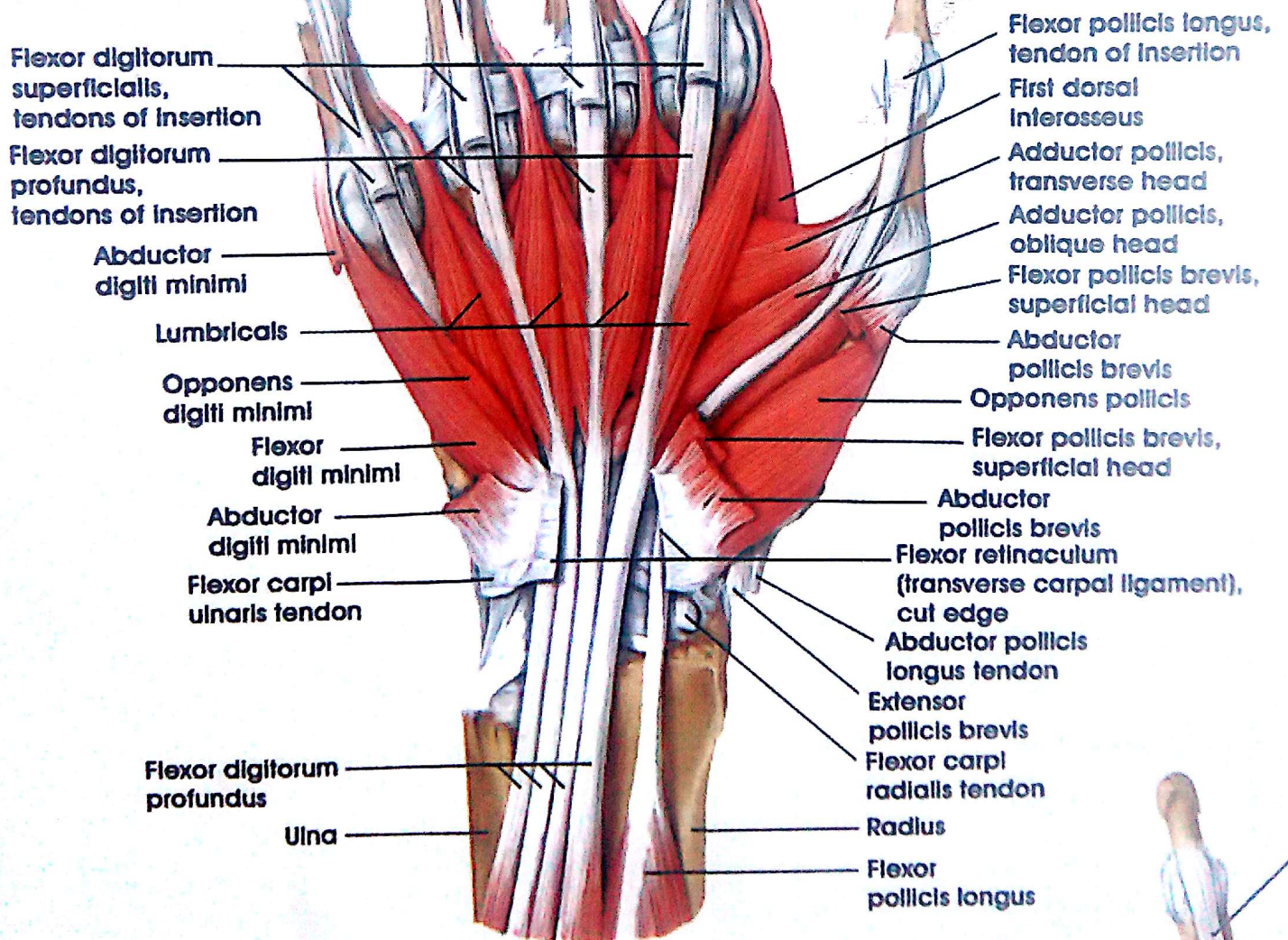




Superficial Muscles of the right hand

Deep fr
meta
liga

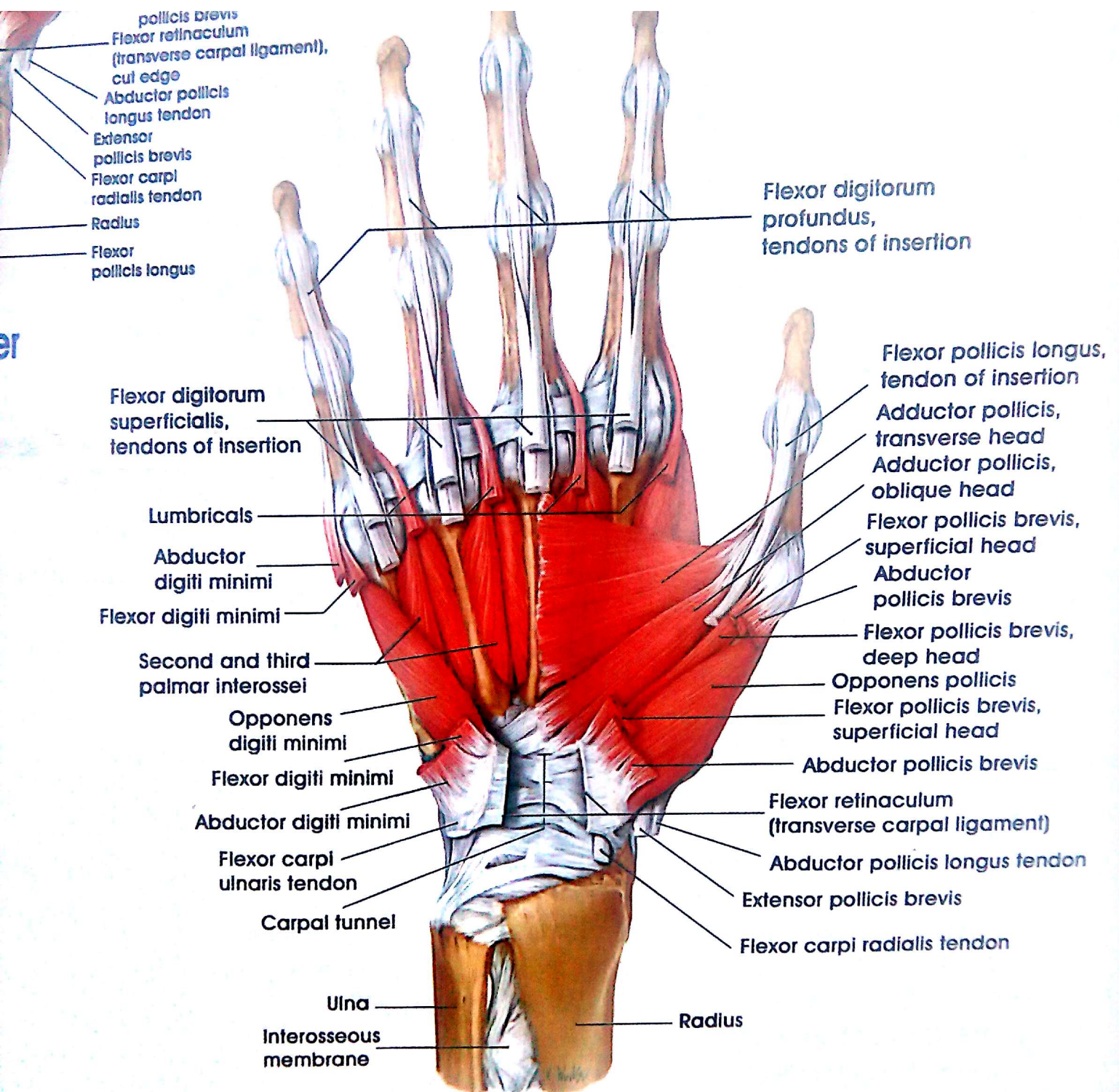
Flexor
sup
tendon



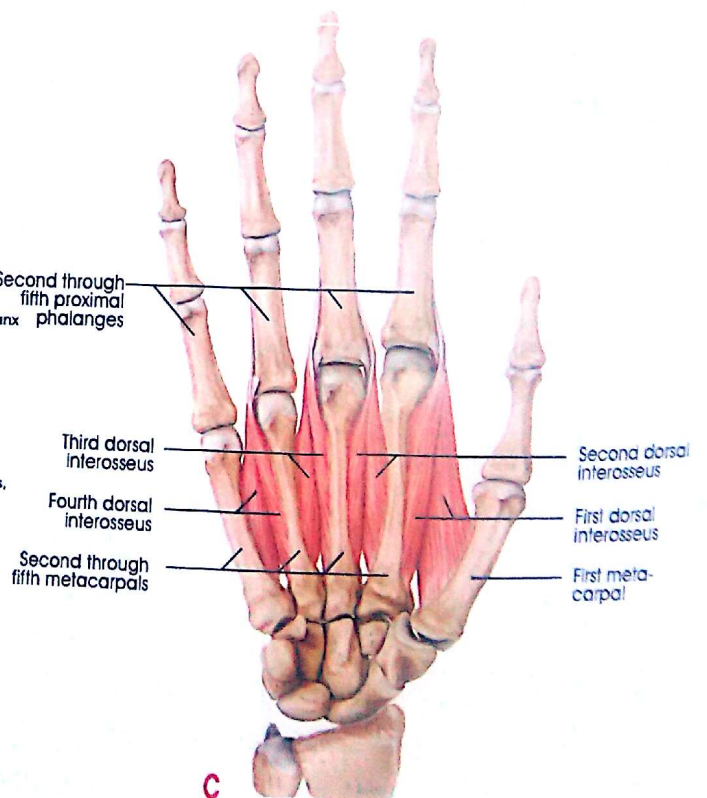
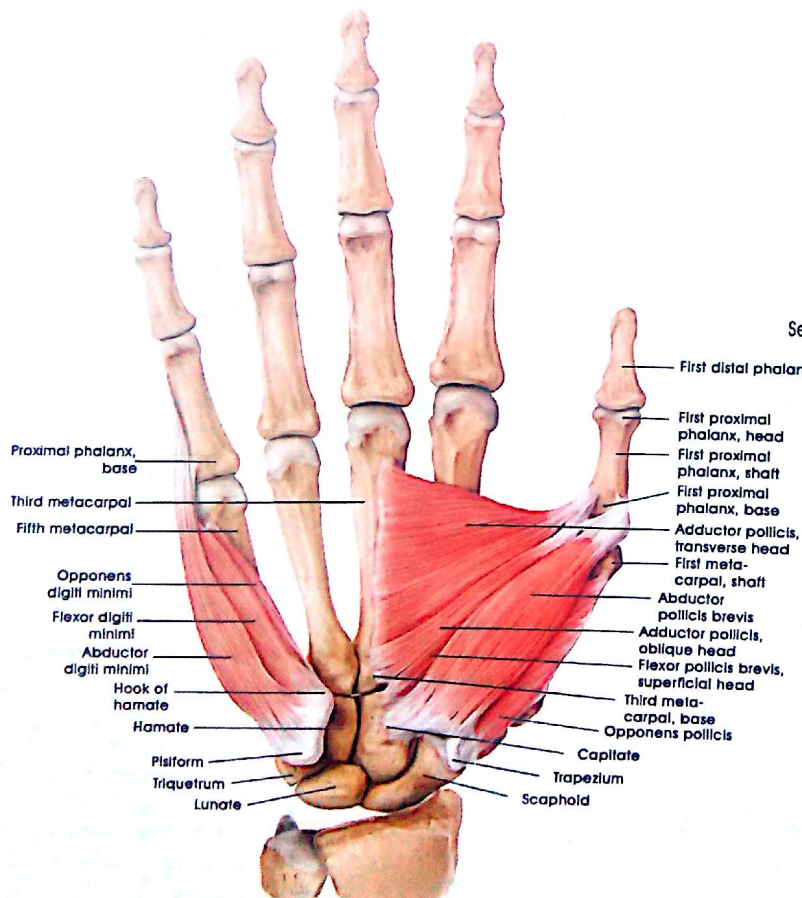
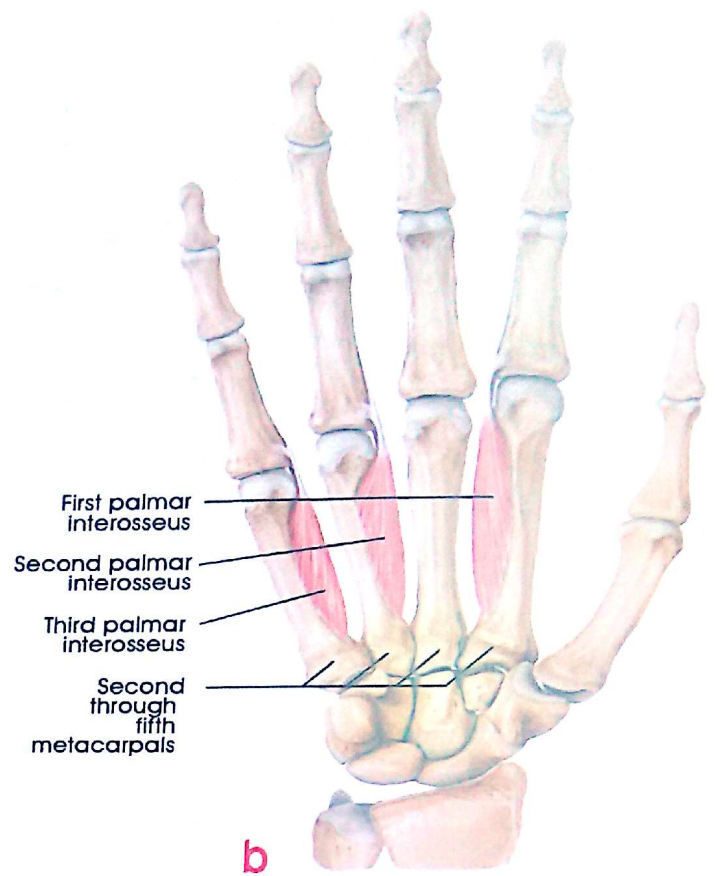
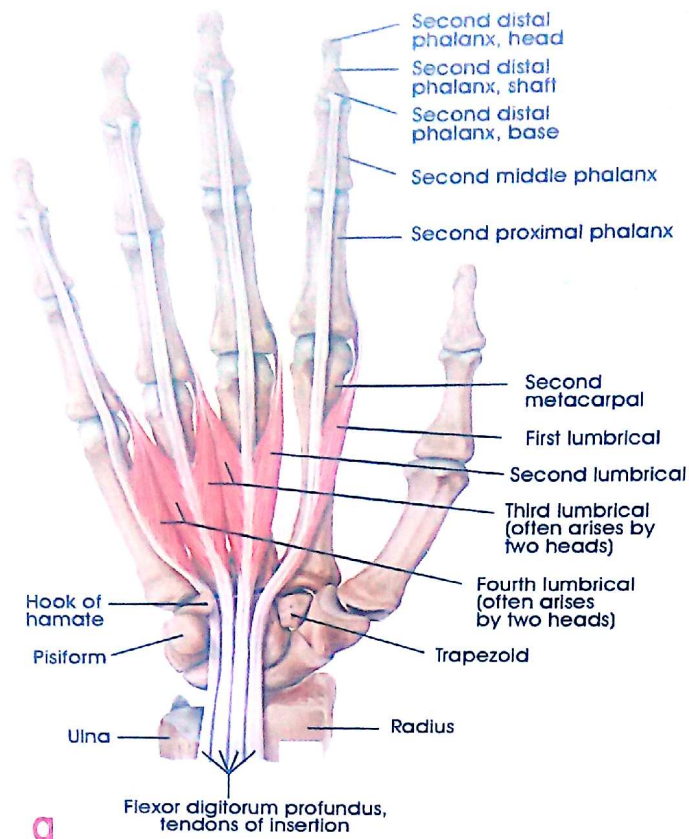
Middle layer

Flexor digitorum





The Intrinsic Muscles of the Hand

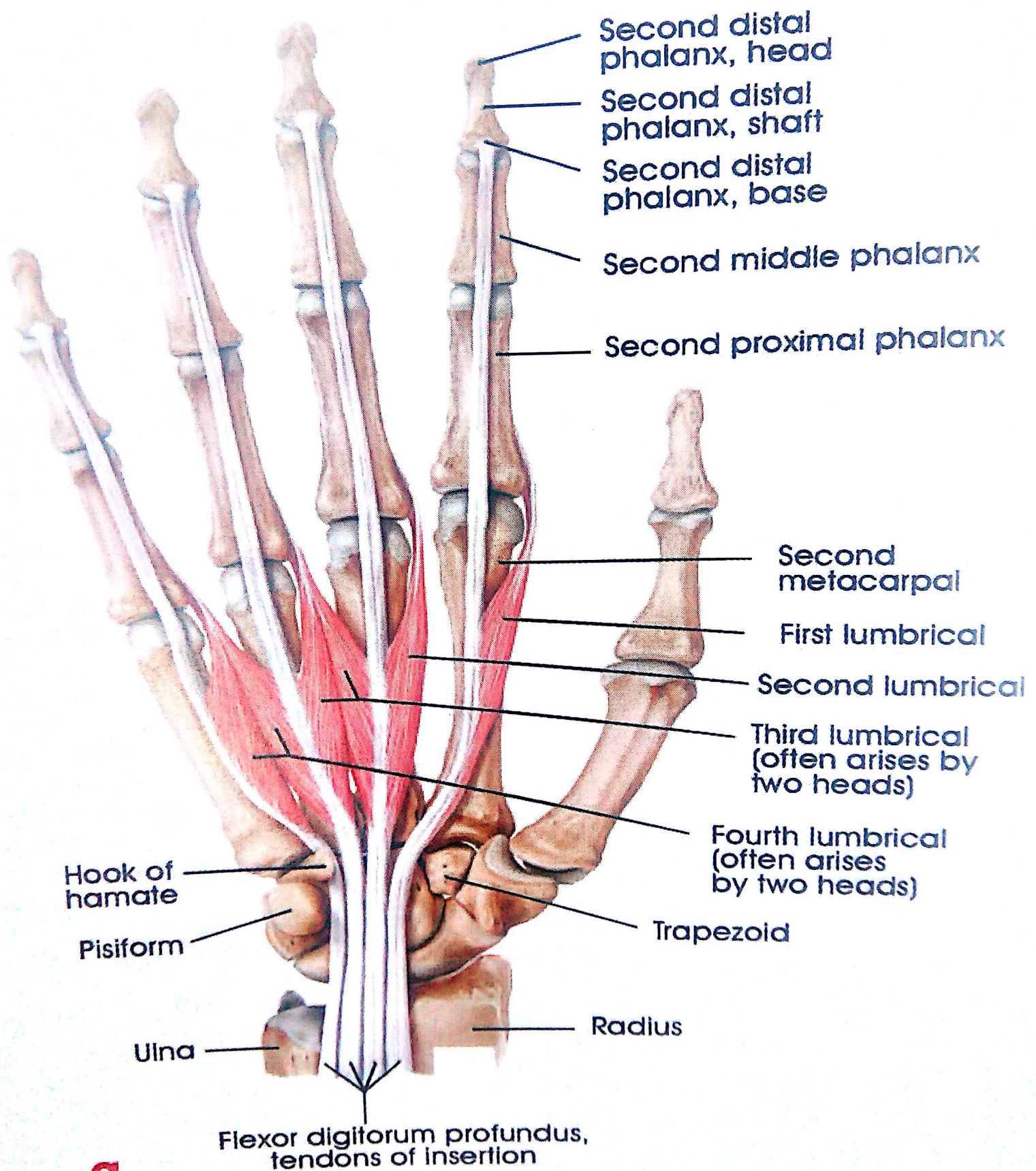


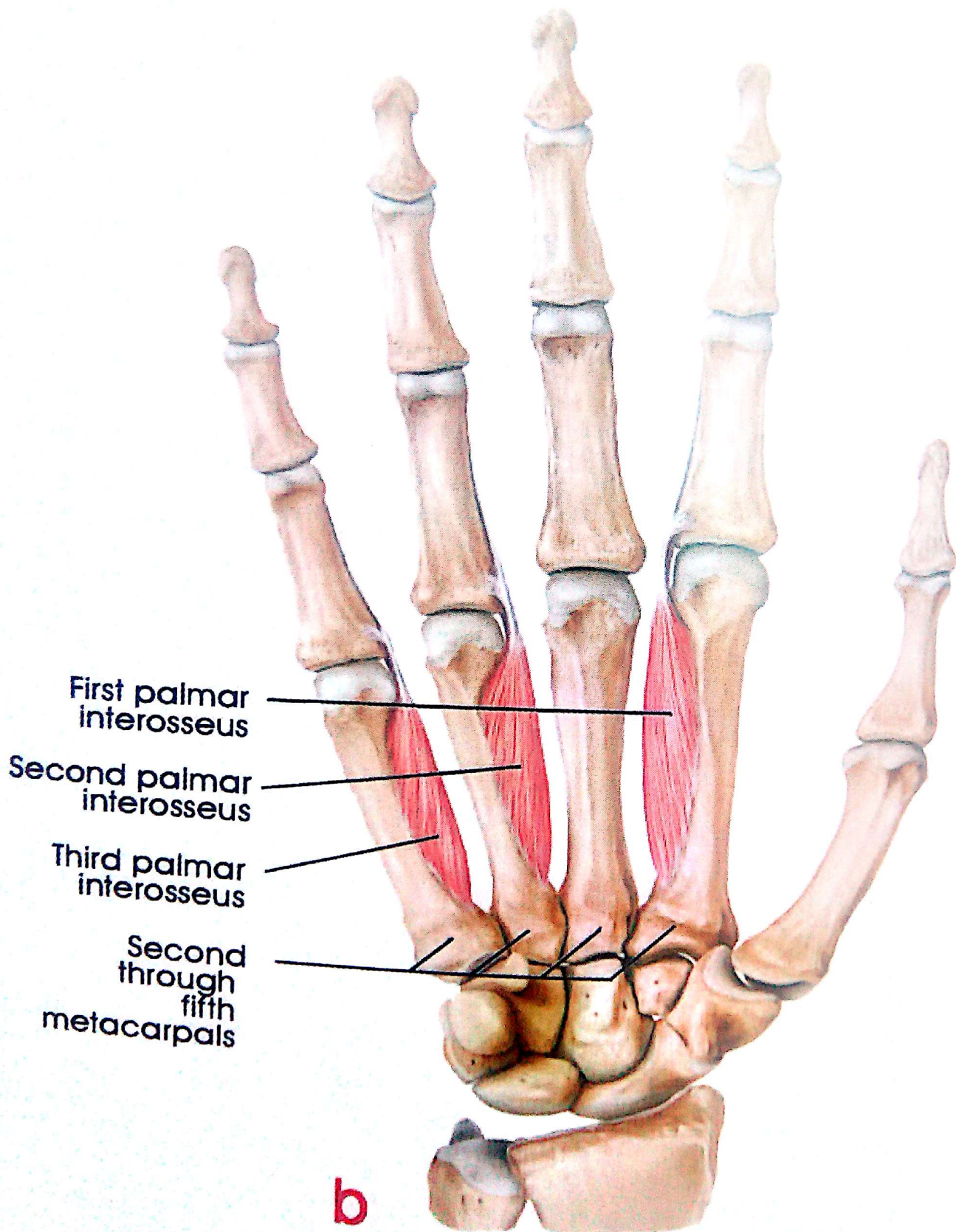
The Thenar Muscles (abductor pollicis brevis, adductor pollicis, flexor pollicis brevis, and opponens pollicis) and the hypothenar muscles (abductor digiti minimi, flexor digiti minimi, and opponens digiti minimi)
Right Hand, Anterior View

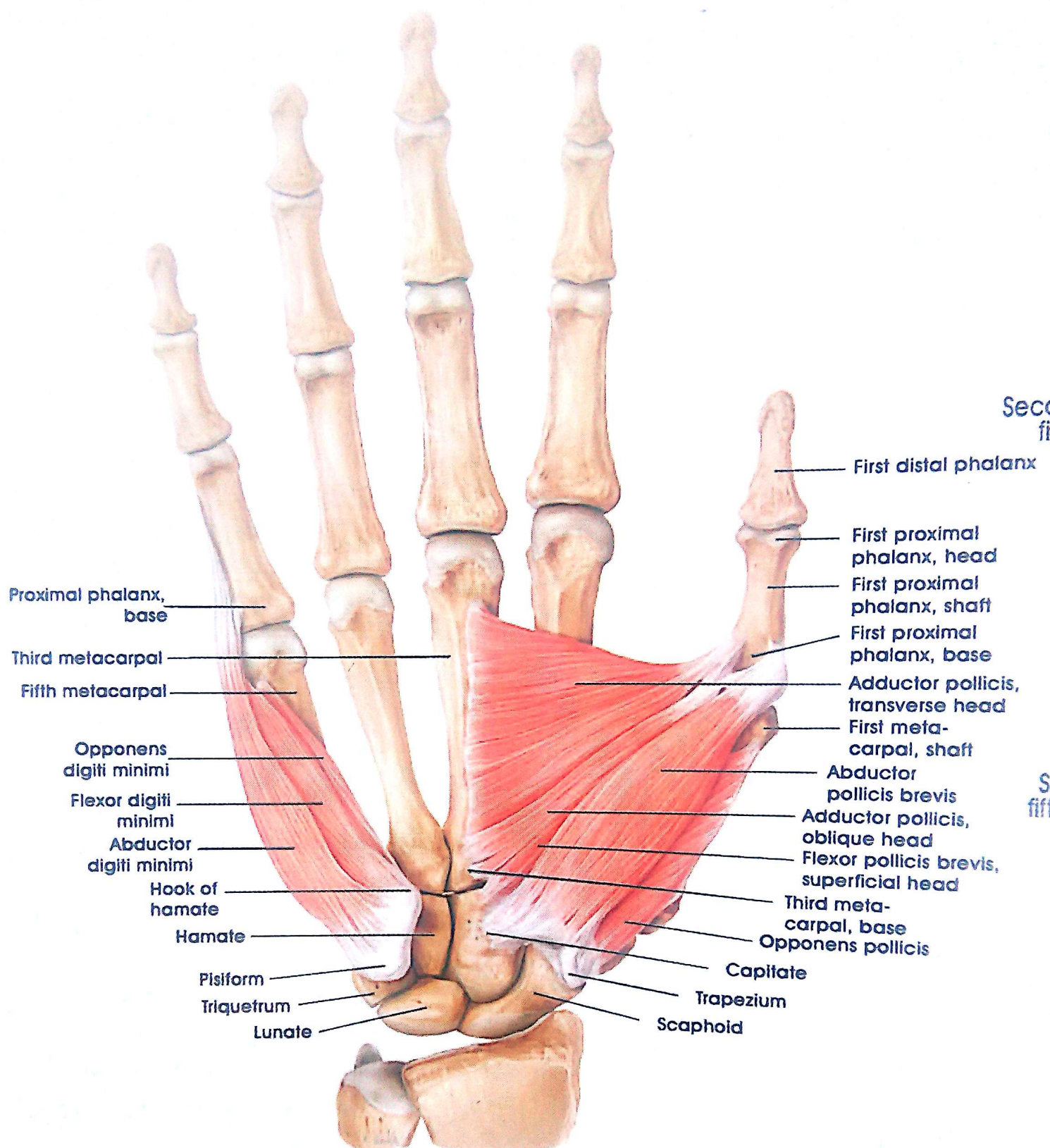
The Muscles of the Hand
Right hand, Anterior View.

- a First through fourth lumbricals.
- b First through third palmar interossei.
- c First through fourth dorsal interossei.

The Intrinsic Muscles of the Hand



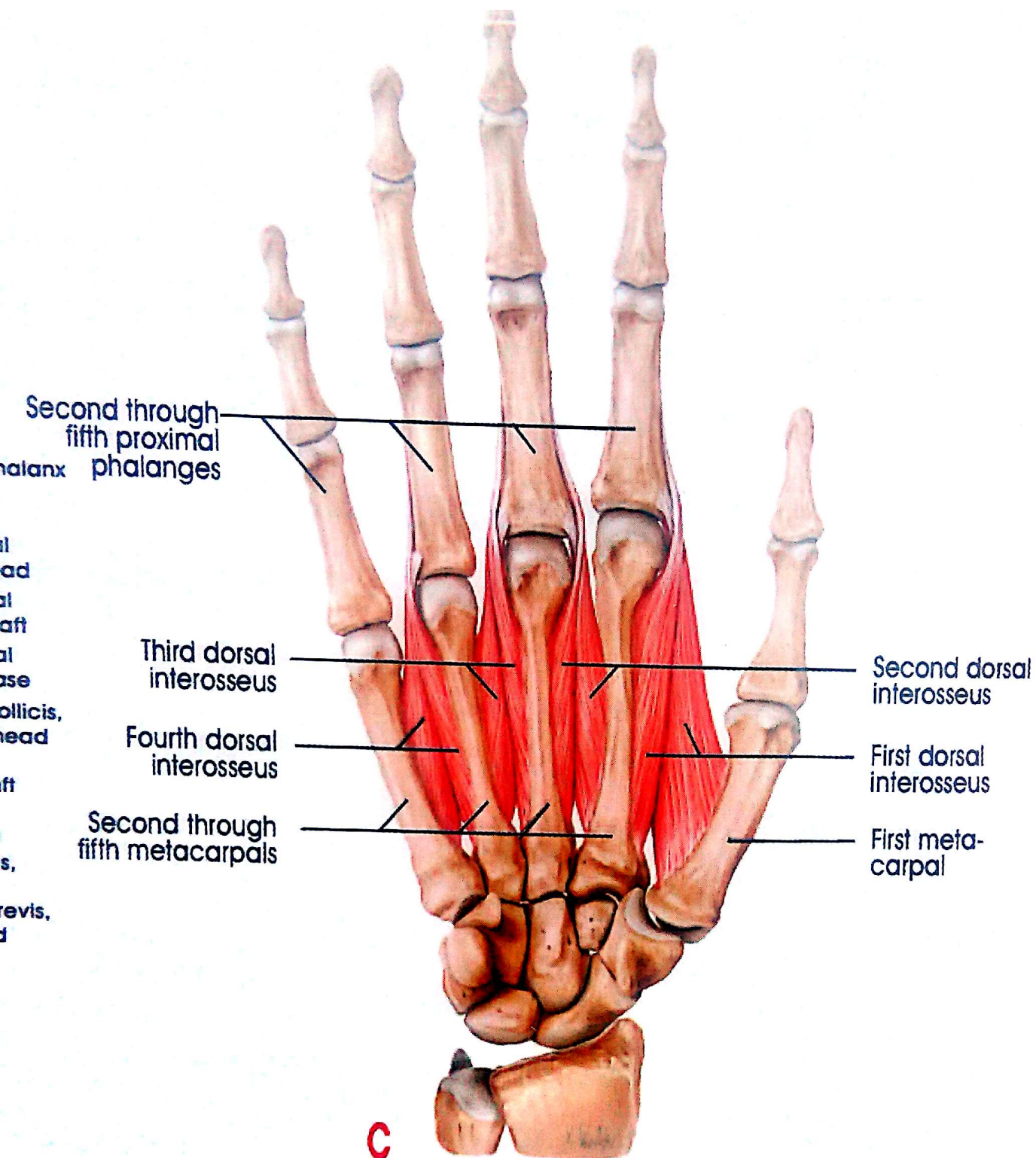




The Thenar Muscles (abductor pollicis brevis, adductor pollicis, flexor pollicis brevis, and opponens pollicis) and the hypothenar muscles (abductor digiti minimi, flexor digiti minimi, and opponens digiti minimi)

Right Hand, Anterior View

The Intrinsic Muscles of t



The Muscles of the Hand

Right hand, Anterior View.

- a** First through fourth lumbricals.
- b** First through third palmar interossei.
- c** First through fourth dorsal interossei.

s of the Hand